

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPPKKD IKGSY\VSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQHE\CI PQGHPGA WDVLLPGQSPGMGK TAVFRCWPPLQQ\EPVNGQVT\ VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\AE EVMKKNCPHVVVGTTPGRILAL VRNRSFSLKNVKHFVLDEC DK MLEQLDMRRDVQEIFRLTPHEK QCMMSFATLSKDIRPVC RKFM QDPMEVFVDDETKLT LHGLQQ YYVKLKDSE\KTRKVFDLWD\V LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFP AQWPI\HRGN GPQ KERPVNAYQASSKDFPSGRDPL VATQ\ILFG\RGMDIEAKSN\VFN YDMP*GLGTPYL\HRVARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAE\PEEIDIST YIEQSRLNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVLYKIDVPANRYDLLCLEG LVRGLQVFKERNFFLTVLEVEK SKTKVEQIQCLCSQEDIADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTIAANRKMPLPL KLFEISDIVIKDSNTDVGAKNYR HLCAVYYNKNPGEIHHGLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRITYT DEEFDE\LCFEFGLELDEITSEKE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KD\RYDSFIELQEKLHQNICRKR ALVAIGTHDLDTLSPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNG\VVLSMPPIINGDHSRI TVNTRNIFIECTGTDFTKAKIVL DII\VTMFSEYECENQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIIPPTR ADIIHACDIVEDAAIAYG\YNNI \QMHSPENFTP*ANQFPLNK\LT ELLRHDMA\AAGFH*STLPLAL CSQGRYWLDKLGVGYLWQQR AVHISN\PKTAEFQVARTTLLPG PP*RP*AANRKV\PLPL\KLFEIS\ DIVIK\DSNT\DVGAKKTTRQSL VAGLLPTKNPG\FEINSWGCWD RIMAVCSDV\PPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SL\GKLG\VLHPDVIHQIWS*PLP CSSLE\NIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCSVTLQLSLY MKSVA/GIGQTGKIEPVVLP WFAESGAMEGETLHTFYTQLV LMPKVMHYAQYVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAFPPA*TDIILWTEPATLM AEVSACCAPELPPPHRVPQIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRGSGNSHGEVSKGRMCLAGA LPLPGACAALVLLLVLPEPLRC PLHTLYGGRDPVDSIRLWRQA GEFRHKSNTFNNNDTVSFLEY RTF\QFQPSKSHGESDYIVMPN ILVLNKPRSTWISVCVHGCIPA SRTGPRTESMHSKSLWKAWLA APGLPLL

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22308	52676	A	22436	1	1623	RRRPRLPGAEPCEPRVGPARRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVPSLIKQV LKNVRIDPSSLSFNMWKEIPIF YLSVYFFDVMNPSEILKGEKPQ VRERGPYVYK/ESSRHKSNTFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILLVGVAVMME NKPMTLKLIMTLAFTTLG\ERA FHGTALWGEV\MWGYKDPLVN LINKYFPGMFPPKGGFGVFAEL NNSDSGLFTVFTGVQNISRIHLV DKWNGLSKVDWFHSDQCNMI NGTSGQMWPFFMTPESSLEFYS PEACRSMKLMYK\ESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNCVK LQLSLYMKSVAIGQGTGKIEPV VLPLLWFAESGAMEGETLHTF\ YTQLVL\MPKVMH\YAQYVPS WALG\CVLLLVPV/LSCQIRSQE KCYLFWSSSKGSKDKEAIQA GSE*SLMTSAPKGS\VLQEAKL
22309	52677	A	22437	198	1062	STCVEMPRNLLYSLLSSHLSPHF STSVTSKAVAVNGVQLHYQ\HF GEGDHAVLLLPGMLGSGETDF GPQLKLNKKLFTVVAWDP\R GYGHSRPPDRDFPADFFERDAK DAVDLMKALKFKKVSLGWS DGGITALIAAAKYPSYIHKM\VI WG\ANAYVT\DERPAG*YEGHP RMVSQMGVEGKKESL*EALYG YDYFARTCEKWVDGIR\QFKHL PDGNICRHLLP\RVQ\CPPPLIVH G\EKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADEF NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPLLPP**ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPI DGLLCREPR RGLYLEGTPMTLFQIQFLNSV GDLLDLIPSLSPKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDNFNII DKDTSSSRLSFSSYPGFLESDD FYILSSGLILLQTTNSVFNKTL KQVIPETLLSWQVRVANMMA DSGKRWADIFSKYNSGTYNQ YMLGPEESKAEPQSLTKGT/P VTLWEQIPTY/VRNISGTNLMFL RGKGFWA\SYNVPFHEKIYNWS GLSHC*FRKLGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYN\NYKE\DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKNND FYVTGESY AGKYVPAIAHLIHS LNVPREVKI NLNGIAIGDGYSDPES IGGYAE FLYQIGLLDEKQKK\YFQKQCH ECIEHIRKQNWFEAFEIL\DKLL\A DGDLTSDPFLT SQNV TGCS\NY YNFLRCTEPEDQLYYVKFSLP EVRPAHPTLGN\QTFN\DGPIV* KVPCGEDTSTSPVKPW\LTEIM NNYRVLIY\NG\QLGHPSVAAAP DQSAPLMG\MDWK GSP\EYKK AEKK\ VWKIFKS\ DSEVA\GYIR QVGDF\HQVIIRGGGHILPYDQP LRAFDMINRFIYGKGWD PYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHELK TMLTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGR LDSDEQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSG LILLSELLPLPLMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLALLDALASHKACKLAILHL INGTIKGDERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDLLATLANS ESSYNCLLTCVRTMMFLAHD YGLFHLKSSLRKNSSALHKLK RVVSTFSKDTGELASSFLEFMR QILNSDTIG\CCG\DDNG\LMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSD DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVMDDQLKS MWFTPFQAE\EIGTDLDLVKVD LIELSEKCCSDFDLHSELESL SEPSSPGRTKTTKGFKLGKHKH ETFITSSGKSEYIEPAKKEFMLC PPRGRGRGGFGQGIRPHDIFR\ QRKQNTSRPP\SMHVDDFVAA E\SKEVVPQDGI/PSHPNRPLKVS QRISSRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLPQL\RPLKFPTG*PAPK SLGTRAS*MVRGG\LGTFPGLS AKLAASGGSRGKFVSGG\SGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYSPRLGR GKRFATFVLLVGELCLTSYAP PSIHPILRSEAELNYSIFSKFLA PAGEFALPRSFDNCPRVRLRAL RLALLILLTFILCWTPYYLLGM WYWFSPH\MLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGGRRALPRLPAAS ARARGLTRALSRAMACRQEPQ PQGPPPAAGAVASYDYLVI SGGLASARRAAELGARA SHKLGTCVNVGCVPKKVMW NTAVHSEFMHDHADYG GKFNWRVIEKRDAYVSRLNA IYQNNLTSHIEIRGHAFVTS PKPTIEVSGKKYTAPHIL MVPSTPH*EPRSRGASL*ITSDG FFQLEEIVPAAASLVGARLPLSV EMAGIL\SALGSKTSLMIRHD\K VLRSFDSMISTNCTEEL EVLKFSQVKEVKKAL\SGL EAS MVTAVPGRLPVMPMIPDV DCL LWAIGGVPNTKDLNLK LGIQT DDKGHIIVDEFQNTNVK GIYAV GDVCGKALLTPVAIAAG RKLA HRLFYKEDSKLDYNNIPT TVVF SHPPIGTVGLTEDEAIH KYGIEN VKTYSTSFTPMYHAVTK RKTK CVMKMVCANKEEKVVGI HMQ GLGCDEMLQGFVAVKMG AT KAFDNTVAIHPTSSEELV TLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDRE DERQIE CQGRGVDRKITGEHTT FSGRSG PDHELTLDSGKGCTRS MVPASA ASEDRRKLPPIVEDEG GPTRSRA CSSPARGSRPPSAIGCS PVAQA SDSAAGPARRTALQSL SSWLGY QIDRHVPVYVFKSPLF SVIMAP KHKSSDAGNLDRPKRS RKVLPL SEKVKVLDLIRKDKKSY AEVA KIYGKNESSIREIVKKE KEIRASF AVSPPTAKVTATVRDK CLVKM EQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEY TWFK DGIRLLENPRLGSQSTN SSYTM NTKTGTLQFNTVSKLD TGEYSC EARNVSGY/PQVPGKRM QVDD LNISGIIAAVCGLGVCY AQRKG YFSKETSFQKSNESSK ATTMSE NDFKHTKSFII
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPGLEDPPLGSQLR RRPGEGETDIPSRAVPPLPPLPT LCSFPAPQVQPPASCAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLLRYLVVALGYHKAYGF SAPKDQQVVTAVEYQEAILAC KTPKKTVSSRLEWKKLGRSVSF VYYQQLQGDFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPG\EDTVTLEVLGDVHVL APAVPSCEVPSSALSGTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEARN VG*SEGPCETNASR*SQHKVGII GSR*S*LWALVDFPFVGLVYSYG SEKATFSKETSFQKSNSSSKAT TMSENDFKHTKSFI
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVRFSDFG KAMFKPMRQQRDEETPVDFY FIDFQRHNAEIAAFHLDRILDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCFKCPY MCKTEYAVCGKPHLLEGLSLA FLPSLNLAAPRLSVPNPWIRSYTL AGKEEWEVNPLYCDTVKQIYP YNNRQLLNVIDMAIFDFLIGN MDRHHYEMFTKFGDDGFLIHL DNA\RGFGRHSH\DEIPILSLSQ CGMIKNTLLHLQ\LLAQADYR LS\DVMMRESLLEDQL\SPVLTEP HLLAL\DRRLQTLRTV\EGCIV\ AHG\QQSVH*FDGPGSNSSGPR
22336	52704	A	22464	2	424	GRVGVSAVIVRAWITHKYSGR DWNVKWEENLLHAVAKNYTL LQTIPPFERPFKDHQVCLEWNM GYIWNLRANRIPQCPLN/DFRE DFHYNDTAGYFIIGGSRYVAGI EGFFGPKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSQGFFNL ALLIEGTYERCWSHSNEESFS PCSLAWLYLHLRLLWGAILHSA LIYFLGTFLLSILIAWTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHV\KFP\SIMGLQGM DYFHPDISIFCNLAVIVRAWITH KYRGRDWNVKWEENLLHAVA K\NYTLLQTIPPFERPFKDQVC LEWNMGYIWNLRANRIPQCPL ENDVALLGFPYASSGENTGIV KKFPRFRNRELEATRRQRMDYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTPSVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRFRPRMAVMAP\RT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPRFIVAGYV DDTQFVRFDSDAASQRMEPRA PWIEQEGPEYWDEETGKVKAH SQTRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTLLLLLSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSVAGYVDDTQFVRFDSDAA SQRMEPRAPWMEQEEPEYWRD QTEISKTNQIDLESLRRLRY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFPYAEITLTWQRD GEDQTQDTELVETRPAGDGT QKWASVVVPSGQEQRYTCHVQ HEGLPKPLTLRWEPSQPTPIV GILAGLVLFGAVIAGAVVA MWRRKSSDRKGGSYSQAASSD SAQGSVDVSLTACKV

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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTL\LLLLS GALALTQTWAGSHSMRD\FFTS VSRPG\R*EPRFIAVGYVDDTQF VRF\SDAASQRMEPRAPWIEQ EGPEYWDQETRNMK\HSQTD RENLRALPLTYNQSEAGS\HTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNE\DLRS WT\AADMAAQITQRKWETPPM WRS/EQEEAYLEG\QCV\DLRR YL\ENGKEDAAAQRTPPKTHMT HHPIS*P*RPL*RCW\AL\AFYPC GDHT*PWQRDG\EDQTQ\DTL V\ETRPAGDGT\HKWAAVVVP SGEESEITPANVQQ*RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWVAAVML KEGTAQVGKG*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLK\ILMPFVKTC MVLPSVQTIWKS\VDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DI AEPVT\HSFDKVW\ICSHALFEI \SKYRM\YRSLTVFLGHSPWAFI CGEFSFATL\SLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLC\TSVG\RCFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGSISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNLLGCLGGGAPRPG WLDSEAGGAPAFHCPG*CPRRH RRGGTRLKQLPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCQRCQWSRC PPSCSGTCLCCGAEAPCAAQPA WPPPPAAPPTPPAPPSD\NSSCT Q*PTPRCGT*DKDKGIFTLPKGH P*V*SLEHGFLKLGSCPPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDVK VRIQTEPKYTGIVHCVRDITYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHICRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPLADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQVEEGLC GLYKGSALVLRDGHSAFYFL SYAVLCEWLSAPAGHFRPDVPG VLVAGGCAGVLAWAVATPM/D GIKSRLAANGQGGNGYRGLLH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FQRVR*DYLHGYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNIEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRAESHEDAIEW RGDSSVNVIEDGSNAKDESKS NDTVCKEDCEESCDVKTITRE EKHFMCIFHNVQSLGTVCGEK GIDVN*NYTRRKTFHVLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFL*FL*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWFFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCAPFLFWMLGVKT EPAGQDRRKKARSRCIFRVHA SGLWGLRFPSVEWGKPSRDKA QLSESPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEELTIWEQHTATLSKD PRRGFGIAISGGRDRPGGSMVV SDVVPGGPAEGRLOTGDHIVM VNGVSMENATSAFAIQLKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGPQRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQRLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRLQGPS KGGAAPCHKPEAGEDATLRD\ MIILPEMWGSMVG VYH\GKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFALGLPQPEMI GHYLGESITYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPKLTCAFPVSV PDSCCRVCRGDGELSWEHSDG DFFRQPATREASHCHRSHYDP PPSRQAGGLSRFPGARSHRGAL MDSQQASGTIVRFVLNNKHKH GQVCVSNGRITYSHGESWHPNL RAFGIVECVLCTPTPID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLEVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALWSVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIQRPANR EARHSYHRSHYDPPSRQAGGL SRFPGARSHRGALMDSQQASG TIVQIVNNKHKHKGQVCVSNK TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHCNRYPCCK YPQKIDGKC*QNSTCFLIPEELP GQSFDNKG YFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGILQHFHIEKISKR MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVC RTELED LVKVLYLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMGEHLQKLIPASPACLA* IPQACQP*PPTPPAWQCRNLR/L AASRHQEPGEVGGPLGHGAE RILAVPVRTDAQGRLVSHVVS ATSRAGVRARRAAPVRTPSFPG GNEEPPGSHLFYNVTVFGRDLH LRLRPNARLVAPGATMEWQGE KGTRVEPLLGSCLYVGDVAG LAEASSVALSNCDGLAGLIRME EEEFIEPLEKGLAAQEAQGR VHVYRRPPTSPPLGGPQALDT GASLDSLDSLRL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRAF SAVISRSPQRTVSSSTRKEQRPLV FAFSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLTIR LALG\GAPNRPFYRIVAAQNK PRDGPFP*SKLGPPYDP/LLPPNS HGEKTPCPLN\LDRI\RHWIG\CG APLLSPMEKLLGLAGFFP\LHP\MMITNAERLRRKRAREVLLAS QKTD AEATDTEATET
22366	52734	A	22494	2	4985	AGATTALELPGQPSVTGVPELP GLPSATRALELSGQP VATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQP VATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSMAERSMMSAYE RSMMSAYERSMMSPMADRSM MSMGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22367	52735	A	22495	18	174	ALIKKH FIF*IAAAKPTPPKSQV TLTKEFPVSSGSQHRKKEADSV YGEWVL
22368	52736	A	22496	3	595	IKKH FIF*IAAAKPTPPKSQVTLT KEFPVS\SGPQHRKKEADSVYG EWVPVEKNGEENKDDDNVFS NLPSEVSRNIMYFSFFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQM\KQPAASHLTVT RM/CNSLCG\TKATKWKRLRFA ENSVITSLPNIGPSLHLWEGSP WYSIPFSFPSLLLLKVGEVEFKR

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVT TTELEQPVGMTTV EHPGHPEVTTATGLLGQPEATM VLELPGQP VATTALELPGQPSV TGVPELPGLPSATRALELSGQP VATGALELPGLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQP VATVALE ISVQSVVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMD QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQM LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGTMDSQMLA SGTMDAQMLASGTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKV DAYLYKQILLMKLP TKKSKKKHKKHKNKKKKKKKE KEKKYKRQPEESES KTKSHDD GNIDLESDFLKFDSEPSA VALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPA TKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTTLVLK SSEPVTMSVEYQMKSVLKS ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTEVYEPSTSTT MDFPESSAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRTSKMQTSS SRSVHLSEWQKNYFAITSGICT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSIID SDNVESGLNNYAENILTAGSQ QTDSKWKQSGLSINNFKMSS VQKMMQAGKKFKDSLLEPALA SVVIHKEATVFDLPKFSVCGSS QESDSLPSAHDRDRTQDFPES NRLKLLQNAQPPMVTNTARTC PTFSAPVGESATAKFHVTPFLG NVKKENHSSAKENIGLNVFLSN QSCFPAACENPQRKSFYGSSTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKKK YHQPQRASGSSYGGVKKSLGA SRSRGILGKFVPPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGECEKMRALF AVARCQQPAVIFIDEIDSLLSQR GDGEHSSRRIKTEFLVQLDGA TTSSDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIAITPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRG\RGWVPSG CRKFPDFPLGLPVGT*SNWCL TNT\GAQKTL\ISREGGIKGTG LTRLPLPGVG\DMVMAHSSRK ANPELQKKGYP\VVIRQRKVI TVGKRWRCCFFIFED\NAGVIGD\ NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSIWFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIRHP RPGERRRLLHGIPHTAEKQPA PLRPERRGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQAS\PLPP RGPRPRVAPGSP\PEGHPRELPS EGSPGPRAPGQRHVRPPRAVLR PRGLRGGGCPGPAHPAPRLQRR RAPGEEAAPGPRWPGRPGRGR AQALVPAARSRCFWKLWEAVF CLPVAAAPTTRRFGARQRPQLW LHGHKGGQVGEVSSHSAEGEEH LVPHAAPKRAREPHGRSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTQLQSYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*TFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRGTVVRVSNIKPLC TKMAFLCAACGEIQSFPLPDGK YSLPTKVIRSLTASLFLVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSIIILLDLVDSCVPG DVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFVS CSFACKMR**FTSEFSPLSKDSS SGDFALEAGALVLGDQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENK*VSSNIY TFNVLNHFNSIRKRNSSHLLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVVEKPLSERLKV *MFLLLIQFGSV*MSKFVWLIV DVYPRLSTEAAARVLQDFYLELR KQSQRNLNSSIPITRQLESIRLITE VCFFLWSCFFWLKGECCALTS LKYR*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND\QGYLLKKG PKVY\QLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPGDLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEWFHGDCVGIS EARGRLERNGEDYICPNCTIL QVQDETHSETADQQEAKWRPG DADGTDCTSIGTIEQKSSDQGI KGRIKAAANPSGKKKLKIFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPG\CCHVAQP\DSVYC\SNDCIL KHAA\ATMKFLSSGKEQKPKPK EKMKMKEKPSLPKCGAQAGI KISSVHKRPAPEKKETT VKKAV VVPARSEALGKEAACESSTP\S WAS\DHNYNA\VKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGKERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGCCVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCSSVSWSLCAYTLPL GMDDKGDPSENEAPKAIKPTSK EFRKTWGFRTTIKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEQFLTIARRRGR RSMPVSLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNLRLRRKREQ EPTERPLKGIQSRLRKKRREEGP AETVGSEASDTVEGVLP SKQEP ENDQGVVSQAGKDDRESKLEG KAAQDIKDEEPGDLGRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEWFHGDCVGI SEARG RLERNGEDYICPNCTILQVQD ETHSETADQQEA*MGDLGDA\D GTDF\TSIGNIRSRLSRRPKGLK GRIKAAANPSGKKELKIF\QPV LEIAVSRSSAFTLLHCISCKVIEA PGASKCIGPGCCHVAQPDSVYC SNDCILKHAAATMKFLSSGKEQ KPKPKKMKMKPEKPSLPKCG AQPVQWLLLLSSWQLGTSSGL QVTLCQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMPRLPLCLPGWPRSSPSL

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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE\ AGVGDSVGGRMKASGKTVLT GRERRAQADTV\DLNWCVISD MEVIELNKCTSGQSFEVILKPPS FDGVPEFNASLPRRRDPSLEEIQ KKLEAAEERRKRGPD LVIYEIH SPASLPFHSSDASVLGDIPPTTY SNISNSNQELLLMGGSPAPEQP HYEANILERSETTSYDNGSDAA QSFKVDGRCVFYINIPISNEGK VLWKAPEIATAKEPTWSPLGST GPRPCQILVVKSPVVHGKGPVL SGCGLDLLEQPTFALCFLVAGA VTITFLSCSGEEAREESAPKAMS ERQARRGGAEKQGAEGRGLQA VTTPELPYRMGLGA AFLKERS GVLPGSFICEDFTAALKQDEEIG TMKGKIREAYFKSFVPTPVAFS GGVMLPTGGTLEMCGNNFGGH KEQAGTVLPFAFIALRVTPSAS LVLRLPLNDQAMLQGS LGLQL ADGLFWDLASIMDWTASRIQPS VSSSMKICQAFPGRPLAILLAQC AYVYGTWMKLEA IILT KL TQE QKTKHHLFSLPCCMPADISYRQ RCLGEPHCTVWNRHLESLVM MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVIFRHWKVIE\LN KCT/SGANSFEVILKPPSFDGVP EFNASLPRRARPIPWEEIPVRKL GRRLRERREVTREADP*KQLAE KR\EHEERGD SKRAFRET TFIK MAK/EKNLAQKMESNRENREA HLAAMLRLQEK\DKHAEVR KNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVLGLNASCQKNFLKQK KSIKTLSTSQ/YSVSGYSLARSE NAHPEFRMAMKD GELVIWDSV HPCYTVFHEQTET FSSLWSEYH DDFRQFLHIYSQDVACYGENLA YFPKGF IENMFFVSANPWVSFT SFDLNVANMDNFFAPVFTMGK YYTQGDKVLMP LAIQVHHAVC DGFHVGRMLNELQQYCDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGREV NDLKRK\SPSDLWKEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGKVGKP\KVKKLQ LEETMPSPYGRRIPEITAMKAD ASKLLKKK/KGVLDLTA AVK\ VEFDEEFSGAP\VEGAGEEGIDS HQFPINK\GPKP\RREKKEPGS\R VRKTPTSSGKPSAKKVKKRNP WSDDESKSES DLEETEPVVIPR DSLLRRAADIHRLGGEGFDAGL TVFAPLFA SPFPPRGAPYLKAA CQTPRSGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTEVLSQQA KTL SLLG EPKLSKQLTGTCIYRKTNLALC RGPA AAKSLFQGAVRNDRNKK KKETSKQECTESYEMTAELDDL TEKIRKAHQETFP SLCQLGKYT TSLQKGMQRCQILDSSVRPIV DVRPELQDSKLVLVQA AKCA PLADHCSKP VLLKEGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPAAVGGWK GWF GTESRKDPKPTGTEEVERGVW LSGREGRLLSPSVVTTMVL AEN SAIRFVGKPSSDTVPKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKT LRYGKIMIMTDQ DQDGS HIKGLLINF IHHNWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKKHIENQKAWKI KYYKGLGTSTAKEAKEYFAID MERHRILFRYAGPEDDAAITLA FSKKKIDDRKEWLTNFMEDRR QRR LHGLPEQFLYGTATKHLTY NDFINKELILFSNSD NERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTYVFF DNKIQGDLAGRAEILGKTSLKI WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTIVQVKPVTVCVR VPKAVPVGKMATLHCQGE*GP PPA\HYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPGTSPGAGAQR R*\PRADGSGSPQWPRGARVGG GRLGTGGRGRPGWRQVPRRLS PGFGR*GGTGPGPVGTSGKRG SRRRAPANDKAACWPRFPGQP AS*TGFRGERGVKGFSSWGSG WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHHDPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAPPSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDPD PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPGPDMAQEAPQEDTS PMALMDKGENELTGSASEESQ ETTTSTIIITTTVITTEQAPGMQPP TPMGEGPPIVKHTWILDKCNVA TLQST*ALGPNEGYIDSSDYPLL PLNNFLECTYNVTVYTG YGVE LQVTPGEYPDGELLSIRGVDGP TLTVLANQTLLVEGQVIRSPNT TISVYFRFTQDDGLGTFQLHYQ GRVRPRLFPRRPDSGDVTVMDL HSGGVAHFHCHLGYELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSYENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPQTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPIYQNGNFTTSDPTYNI GTIVEFTCDPGHSLEQGPAAIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHVGEEKRIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHDIPALSPLLPEEARPKHA LPPKKKLSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSVDVLYFIFY RRDDNKDIDSEKEAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVKQSLGEIFLCISINMS C*KVKSKVSAFSTWEKELHKIV FDPRYLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLLEREEKEKLFNE HIEALTKKKREHFRQLLDETSAL TLTSTWKEVKKIIKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRTLKTKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSST E\RSKKLIQESDQHLKDVEKILQ NDKRYLVLDCVPEERRKLIVAY VDDLRRGPPPPPTASEPTRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPP\NA AMRGPPPLMRPPPPFGMMRGPP PPRPPFGRPPFDPMPPMPPPG GIPPPMGPPHLQRPPFMPPMSS MPPPPGMMFPPGMPPVTAPGTP ALPTEEIWVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQVQAQVQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQLQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLAVAAATSSPLPPVVT LVPPPPDTMSCRDRTOEFLSAC KFAARPVKNGI\QTN*GQLLRW LVQRSEIHPSLAKRHLGKDLS NTFAKLEKLTLAKR\KPLFDDK AGEIEELTYIIKQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKL\ASMSNDFKSV L\EVDRDGTLLKQ\QREPEERQFS RAPV\SALPLSPTHRAGGA\VVL GAESHASKDVAIDMMDSRTS QQQLQLIDEQDSYIQSRADTMQN IESTIV\ELGSIFQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVE\AA HSEILKYFQSVTSNRWLMDKIF LILIVFFIIFVVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPL RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSLVKNCDISVHLVE VSQKLSEIQALTLKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTDVPGKGSFYLAHEFLDV LPVHKFQKTPQGWREVFVDIDP QVSDKLRFVLAPSATPAEAFIQ HDETRDHVEVCPDAGVIEELS QRIALTGGAALVADYGHGDTK TDTFRGFCDHKLHDVLIAPGT ADLTADVDFSYLRRMAQGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLQGYDML MNPCKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYVPVNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDLL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTPQP VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPKGKARSEKGC SL SHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIIMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEA EWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLLRKEDSAPSQGKSVVFTL TSQG*VPLWRTLQLQGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPATEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLF SHAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPI LG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22425	52793	A	22553	292	1493	SNDRTEDDCGKHPFMSSPPVTEP WVCLHIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPLHFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAfetLKQ ALVQAPALSPTGQNFALYVIE RAGIALGVLTQTHTTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCH\PLTEPQVCLT IEGQEIDFLDGTGAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHSFLPLGWLMT EVKVLIPASQWKILKTLHQTF QMGIENTQQMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDFTT NWIEAFPCKIEKAQEVNKLVIH ETIPRFGLPQSLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCGKQAKKSPKDHK NPRAVGYVPFNL*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGSWLISRESPLACLGEGLG VPGM*DLPHAWPTTLMCPCLV GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS

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22432	52800	A	22560	2746	5211	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPEPTG LLGRDILAKAGAIHYMMNMGKLL PICCP\LLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWSWAL TFKDAFFCIPLHSDSQFLFAFED PTDHTSQTGTVLPQGFRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLATSSEASCEQATPDL LNFLTNGYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLKQLRGFLEITGFC *LWIPGYSKIARPLYTLIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSPTGQNFSLYVRE RARIAGVLTQTHGTPQPVAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQKDLTV*TTY DVNGILGAKGSLWSDNCLLR YQALLLEGPVLQICTCMALNPA TFLPEDGEPIKHDCQHIIVQTYA ARDDLLEVPLTNPDNLTYTDGS SFVENGI/RKVSDVTILESKPLPP GTSQAQLAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHIHSSPCHERPNNVSTLPF LPGEQHPILLPPRNCPGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPRQSRGFGELL STAKQDLVLEEQSPSSSNSLENS LVKDYIHYNGDFNAKSVNGCV PSPSDAKSISSEDDL RNPDPSPSS NELIHYRPRTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLKTLTEGLEAY SRVRKRNRNGIKVPPRSPRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGGRGEVITTYCPANNEPIARV RQA\SVADYEETVKKAREAWKI WADIP\APKPKEKLV RQIG\DAL REEDSKLLRKPWCPLEDWGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTTSLIS VAVTKIIAKVLE\DNK\LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFG\ RHYQNWRSLELGGNNAIIFAE DADLSLVVPSALFACCGEQLGQ RCTT\SRGRLFYYMESIHDEVFK QTLKRAYGTRSRVG\NPW\DPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVM DRPG N\YVEPTNVTSLDHDASIAHTE TFAP\ILYVFK\FKNEEEVF AWE* WK*NRGLSS*HSLPKDLGAESF RWLG P\KGTQT CG\IVKCQPFPT KWGLRLGGA\FGGEKAHLVVA RESGQ*C/WGKQYMRKVYLV L FNYS\KDLPSPGPQG\IKFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSSPLKGSRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDLHLALR DHIVGLNCGRWDIYFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTKRGAFAMGGM AAFIPSKDEEHNNQVLNKVKA DKSLEANNNGHDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGQSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRNLTLDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVYEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGPLPENVTWLSPE GEFQKWNGTAWVKDTEAEKL FRIREAEETKNNLMQVASEHIA PLQDAADLEIATEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPMWGRGGFDRMPPG WGGRPMPPSRRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMRGLEGPNYIFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSARGSPDDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLEDR RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRGLHLPEKH/V TWRGEAIPGSLFDLA/LYFFHNY QALLAKGSGP/YFYLPKTQSWQ EAAWWS/EVFSYAEDRFNLPRG T/IKATLLD*TLAGGFQMVDP LGG*TGPDHRLRYIKVENIPKV GEEGDAETTGGTAV
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKV FVVKRLSSSRSLVI SPPVRTSTVSSPLTSPTSPSTLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASSS EEEEPLLCNGPSQAQPSPIIESA RSQEEVPPSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGKNTSVVKNSILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFFK VLKNFLIAGGGVHESSKRAS*T LQFIYY\SEWYGHEELKAIVWN NDLLWEDYEEKLADQAVRTM EIYVAQFSEIKERIAKRGRKLV YDSARHHLEAVQNATKKDEAK TAKAEEEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEDEPLPACNGPAQAQPSPTT ERAKSQEEVLPSTTPSPGGALS PSGQPSSSATEVVLRTRTASEGS EQPKKRASIQRTSAPPKPEKPV RTPEAKENENIHQNPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKYIFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKAL*KL KAVETKDERFEQSASNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRRPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPTSLEI*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNLTAPEPQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/C/TIWQ/TSLA/GKH RRTIETHDDYRISLEQGTGLE PPLNALTAISKKIGCNGFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHNNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPFSFPYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSGLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQRRAGPPSWLYADPVHTGT IECGGHWCLNAALLDFQSPQRL LTYLHCGLQRPME SDPPELAPM VHHQEGIYLNIRKAMYDKPTA NKL NWDKSNVSSLITGTRQEET TANGTTFATHLQFFIQIPAVPR KTLLNRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGRLTP HTAGYSSETKIPEERSDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPA AEGPVC*LWWVT LHGPKATMQVCQQLW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQLRDLV YCIAYPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLI/ARELGH SETAFLLHSD/DSDVRI/RFTPTV EVPI/CGHATVA AHYVRAKVL/ GLGNCTIWQTS LAGKHR/VTIE KHND DYRISLNALTAIS/KKIGC NGFFPFQIRPG/KNETDGRMFSP AIGIVE/DPVTGNANGPMGAWL VH/HNVLP HDGNVLRVRQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLV IPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML*TAPNRRSDK AFTPHPTNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHMEETL KAFHVTGHHILIARHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTFQCQTCCQLIQR FVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLREDLERLKKI RAHRGLRHFWG*VGGLISLPTS TQHSSYSLFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTTGRRG RTVGVS KKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTLFRQQADLV SVSKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA IIKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRLRGSYPVAGRSLRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWIQTKKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAVLAVVVVVVGPLVVRP YHTRRDAVRLLRQPAVFIVAV DIVRILRDAVIRPHCECTVRV\R SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL R\VLNTNIDGRRKIAFAITAIG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPT\QYK IPDWFLNRQKDVKD GK\FQPGS *ANGLSTTKL\RENLKPLKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRICYENRHRHCHLLQQ LPTSPHQHAVA TPTTVAVPTAP AATPPVVVAVVVAPVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKTVAHVFGERTFDVVI WMTDGWPLYESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSL RKT VAHVFGERTIRTLTRRLFRCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQT REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRRLRKT VVAHVFGERTMATLGRMLMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRY\TQRIERHNLNLR QHLARLGRKSLSFSGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSSPSRAAALRQLPR PFRQLAVRMEMISRFRSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTHIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRRIVTGSMGRSL VPSAPLR/PSIVLVLFKAW*LV KTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	

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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPEWPTLDTSGYSA PR/WLFTAYAGSEAVFAHVFGD ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGKLVHISKRY TQRIERHNLNLRQHRLARLGRKS LSFSKSVEQHDKLESLPGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIAYGSLIVVMLAIIFIDWL IGESLLSRFEKTVDHDSQSRLPA EGSILSQDISGVKLFSLTLPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLSE LLSHVGQAPCSVPVDEDDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMPAPLAIIV FALIACRFPGSNGRIRRSRRIRH LHKMPDATLSASYQAYVRHQT NVTALVLRSSHFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPTTQGEKFDHEGEFI RQWLPELRDVPKGKVHHEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTTSTHPSLYIIL KRQTRELRPQSVTSRIPGSDVI VCAEMDEQWGYVGAKSQRQRW LFYAYDSLRTVVAHVFGERT MATLGRLMSLLSPFDVVIWMT DGWPLYESRLKGKLVHISKRYT QRIERHNLNLRQHRLARLGRKSL SFSKSVELHDKVIGHYVLNIKH

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPH\YGRWP QHDFPPFKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKTVAHVFA GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGKLVIS KRYTQRIERHNLNLRQHLLARLG RKSLSFSSKSVKITSGPTTNATP GTQKTATDKRGGKKLPQIPGP ISRIASGAINTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFLGRIGDVS DESDDKTEAPTPHRLEKAREEG QIPRSRELTSLILLVGVSVIWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTLVGSVTG FFLWHHPQMMRLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGFDVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPSSPDLF TAPLLADPTVGFLPNDAELFIF LTEITEITPCRVTDQVLVTLHE KKGDVALVPYDHRGFGSFIGE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAY\DSLRLAR RVVAHVFG*RTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVISKRYTQRNERHNLNL RQHLARLGKSLSFSSKSVELHD KPSPQHREGVKDVMRFNEPMY PLESRPRLYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTTRQRQONSRO HKQTQKKAKPNKRRATERGKG PQKAERPKRHTHCFLKLQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAREIRRFSCCSPEPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDGDLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRRDHRPP\CAQEAPRNMV HPNVICDGCNGPVVGTRYKCS VCPYY\DLCSVCEGKGLHRGHT KLAFP\SPFGHL\SEGF\SHSRWL\ RKV\KHGHF\GWPGW\EMGPPG\ NWEPTFLPRAG\EARPGP\TAES ASGPSEDPSVNFLK\NVGESVA\ AAFSPL\NFEVDIDVEHGGKRSR LTPVSPSSSTEES\SSQPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSG GDDDWTHLSSKEVDPSTGELQ SLQMPSEGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVPWGF*\LKGGWVH QGSCRPRNYDI\GAALDTPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGSLVDICGSRVPFPWV VPAVLPVQFVQRLPRFFRCPPV LVTSVIRSISTLIQALGSSPFARR YWGNLG*FLFLGVLRCSSTGS PH*PMNSVNDVSKHT/EVTPF GN\PGNNGSYHLTDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPCSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCR ADSASSHATSGSSSRGCAGSGR CGASSTRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSFI HRMDNTAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGPWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFSSKVELHD KQQLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDED QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRTTDCMPLSLG TCIREIEAEFPDPIFRRSVVYICE HNTNGAMGIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETGTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAADLNILFKTPIA DRWREAAKLIGVDILTMPAQD GTPDWNIIERLLKEWQPDEIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGVEVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVIILESIFYEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRLRGSLQSR LCPG ASV*ATDGVVRNGKSTAGHQR YLC SHCRKTWQLQFTYTASQP AGQ*REKEEKEEVEEEEEEEKK KRRREGEKEEKEEKEKEKKKK FKKKKKKKKKKKKKKKKKKKK KKKKKKKQLSLVTVMSSQQCQL WRNEARTTGACLPSTVSAAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVLVWVWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLLNP PGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSLRTVVAHV FGE RTMATLGR LMSLLSPFDVVIW MTDGWPLYESRLKGLHTQER KARSKQK DADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAE AQAT RTHTGRRKTIKETATQQAYADE QTRRTARTHRR TARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQH QATR RETTINAHTNTPHYHAEHTQSR SQQTTSTERPTTDSSTTINNN HTPRTVRDERRMTQHKHPSRA STTTNR TTTTGAYQHTQRDTRD TRRDTHEDTTTQQPHTTTPTAN EAA YTAHTTKTDDHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RVGTGTSERREQIIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIAYRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFEIARLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPDISAI SALTAVKHGNCSSLTPLLNPPG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTVVAHV GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHRLARLG RKSLSFSSKVELHDKVIGHYLN GDFLQSTLREAPLIPHTREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RFLSK QEKTLINQLASEEQKVTSRL SDALRNGRVWQLAHYLTIQVA VYGLIFFLPTQVAALLGTKVGF TASVVTAPWVAALFGTWLIPR YSDKTGERRNVAALTLLAAGIG IGLSGLLSPVMAIVALCVAAGIF IAVQPVFWTMTQLLSGTALAA GIGFVNLFGAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGKLHVISK RYTQRIERHNLNLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGHAFQYLLMTLKVLPVASVSI SCPS\CSATDGVVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCSPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTIGRAML KNKHMTITEFVAQRM RDAQK GEISPDINTAMTSRLLDLTYGV LADIEAEDLARKRRLRITRDD WRYLNRILILSLFRRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCGIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIPKGWAGQRIVLRF DAVTHYGKVVWNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVT VLPTFKGQPSKPFVGVLSAGIN AASPKNELAKEFLENYLLTDEG LEAVNKDKPLGAVALKS YEEE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVLGLLGLLVG YLVVLMYAQGEYLF AITTLILS SAGLYIFANRKAYAWRYVYPG MAGMGLFVLFPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGSPFGGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDDS NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLSVVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNCTGYHLPAKQTITLIEQN QLWRDAFYWLAWHNRILELRD VQLIGHNSYEQFAHIIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCEGFTISANPNS SPRYPTIIEQAEQPRIVDFSIVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDGTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDKYCVGYDEKTL PASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRKTWQLQF TYTASQPAGQ*RYTDGTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLV DQAFLDKYCVGYDE KTL PASAPKNGHYKAYILATDG WCVPPKAPPDISAISALTAVKH GNCSSLTPLLNP GSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKT VVAHVFGERTMATL GR LMSLLSPFDVVIWMTDGWP LYESRLKGKLVHISKRYTORIE RHNLNLRQH LARLGRKSLSFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGSCPCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RKLTPGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDL PQLIVKD TRLAFGELAAWVRQQV PARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPM TLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKQWLCFLPDG LLLFAEARFVIWQM QPAVMAV DVAAFAHLFNQQYQRFTGRP PDSSKL PWKITCNGECVTFHW WLLGVA VRISRLLPVRVMTAL EGNYNGTEGISALPFNGI LAHS NESEWVTFRNKNNEAFLDRV YIVKVPYCLRISEEIKIYEKLLN HIFECWQHFLNNPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQFAVVRH REVFLVTFHGVNQRF SRHREEF LFEFCVSVTANLTRCFFGIGFNL RLTFFVIGDDFPTLTQNFRILIGV IDGEFRLAHKAVAANHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPT VETV VAGPLCESG DVFTQQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLLNP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL

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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RDIVLTK LMMVWHSQSGYEKAYAHQIR WWYRAILLTGWCVTAKALPD ISASALTAVKHGNCSSLTPLL PPGSDVIVCAEMDEQWGYVGA KSRQRWLFYAYDRLRKTVAH VFGERTMATLGRMLSLSPFDV VIWMTDGWPLYESRLKGKLVH ISKRYTQRIERHNLNLSSTILVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDGFGNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIAAAREKGMKVITLTGK DGGKMAGTADIEIRVPHFGYA DRIQEIIHKVIHILIQIEKEMVN FTGLVQRGGGTGPHKDGWGIT FYEVAFEDVAVNFTQEEWALL DPWQKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYLS FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAGQ*RLLGP KNRPREQNWLLWCERGVM SRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQQFYPCIPDDAL VQPLFGGNFVFQRREAGHITNR EDIVRHQHGGWRGANSRDDTP GTVELFNGFNQQAIAKTLRAF NATRQHDHVIFAISHFDQRRIR QQLHAARAGNRQVTIAGDAGS GDFDTAANQIDSGDGFSLFTT RGEANQCRCAGHIHSPFFLPQT VRVFSAVPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQLSLQQGKY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTGCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTVYTASQPAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTILCGV VSMGNPHCVIQVDDVDTA AVE TLGPVLESHERFPERANIGFMQ VVKREHIRLRVYERGAGETQA CGSGACA A VAVGIQQGLLAE VRVELPGGRDLIAWKGEELQET LTELDRAVVDYLIKNEFFIRN ARAVEAIRVPHVPRGTVSLVE WHMARARNHIHVLEENMALL MEQAIA NEGLFYRLLYLQ RSLT AASSLDDMLMRFH RWARDLG LA VAMPVTINKGNQIENQLDT ETITISYEFILCQH LIANTEFSYL ALPENYNRLCLPNSKNQTNNRF KTLNSKAIGRLLAAGGVYNGNI EGFRDTAEKLAVPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQPAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPSCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPRLEDK SIALLAMTGKPTSPLGLAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQV QGVFTDGDRLRWLVGGGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARRNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQRVKSGLP AECSTYPSCPVALDLAFASHGI HMHAPGEALRMLVTAMDKAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMSVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPVSDVIVCAELD EQWGYVGAKSQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTAGHQRYLCSHCRTWQLQFTYTASQPAGQ*RLLNRLIEPTRGQVLIDGVDAKISDAELREVRKKIAMVFQSFALMPHMTVLDNTAFGMELAGINAEERREKALDALRQVGLENYAHSYPDELSSGMRQRVGLARAINPDILLMDEAFSALDPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAMQNGEVVQVGTPEILNNPANDYVRTFFRGVDSQVFSAKDIARRTPNGLIRKTPGFGPRSALKLLQDEGREYGYVIERGNKFVGA VSLDKTAAVPPVQLLTGWCVTAKAPPDISAISALTAVKHGNCSSLTPLLNPPGSDVIVCAEMDEQWGYVGAKSRQRWLFYAYDSL RKT VVAHVFGERTMATLGR LMSLLSPFDVVIWMTDGWPLYESRLKGKLHVISKRYTQRIERHNLNLRQHLARLGRKSLSFSSVELHDKVIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMERQAE LAKITTDYINSGGSEGDEKLQNM IKAQNDYYAAEDAKRADWLAGAESAFADYGDSAMDMYGNVNEIASSALNGMTDMMVQFLT TGKANFADF AKNIISMIKMI AQMVIFNTSLRNDGRSVSSGGA AVSLAAAAGSVATSGFNASNSAPKVVTIREVERSVDVSGMEASSTSWITIRSFTAETSTFGPTMTASMTFLPTYCSIIASLLSSF KLA AATDGVVRNGKSTAGHQRYLCSHCRTWQLQFTYTASQPALARNPNRDITTYWGGREEQHLYDLCELEALSLKH PGLQVVPVVEQPEAGWRGRTGTVLTA VLQDHATDGVVRNGKSTAGHQRYLCSHCRTWQLQFTYTASQPGTHQKIIDMAMNGVGCRATARIMGVGLNTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTENQTPH VLTHKWELNYENPWTQGGEHL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLLNPBGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRLL MSLLSPFDVVIWMTDGWPLYE SRLKGKLVHISKRYTQRIERHN LNLRQHLARLGRKSLSFSSKSV LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPGEPAAGRAAPKSGGKRL GGVLGRGGVGRSGSPDRSGA HSAAPRRRCRQLPGRCPCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAGQ*RSK GAIGEGPPDPRGIVEQNLGGDIS IPCYNRPVRRSAQKTTLGPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEDGDAGH MRPRPAGRAEARRRRRLRGNP PPGARLPNREGNGSGVSWAAE VSGDGRGARTEAARTRRRPGG ADNYPGAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPBGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHN LNLRQHLARLGRKSLSFSSKSV LHDKVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRPSSSIQVRGLLSRHGLAL GSAPDLWKLWVNLVQGMGQ QSQSSCREGCSRPOCPAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQ RYLCSHCRKTWQ/LQFTYTASQ EVIRSSPTSAPRSDGKTVPPLM GISP*SAHRLATSDPSLCLSES LCSREPAAVPRASNQQPQGVK DVHHQFTARTSRYPKSK
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSRQNPRCGPCMVVVPQG SGRSVSADSSTEFREQGGSVA\NS FPKSINRAGPELFRFMENPFNSV *YRKNVRELTPAIMAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQMKVEVSEG IASLFRLMPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFSV AENPQWWQQFLKDHVSILAMN EDEAEALTGESDPLLASDKALD WVDLVLCCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHRLVDCGRPGNGSD AGVAARSGRNDGTGRCGLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTQGRNRFSAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNYSVLADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNYLQGVDPGPIGRCTLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSYLVRCCKPG EPMPEATMKAIEYAKKYNVPV VLTGTFVIAKNPQWWQQFL KDHVSILAMNEDEAEALTGESD PLLASDKALDWVDLVLCCTAGPI GLYMAGFTEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAACWCVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQIECIDEIAKLGTGEMVAE VTRTGDAARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTL VVDPTLALRVPLPALSIRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRRTVPAVTASGR SVKYYPPDFDPSKIPKLKLPKD RQYVVRLMAPFNMRCCTCGEY IYKGGKF\NARKETVQNEVYLG \LP\FRFYIK\CTRCLGRDSPFKT DP\ENTDYTM/ESLGATRNFGQ* EASWEEEEKRV\QK\EREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEG\ MLRQHRLSEEERRSQQEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNPTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKAKADPDCSNGQP QAAPHPRSPAEQEGGQPYTPDA WRVLPEPTGCIPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSFGSQHTREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLCPTPLPPKSTKSGCFSLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALLRLL LLLLPPAIRGPGLVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTE\RS N\EETFGYESPIQREGGLTCWSL KFAE\VYFAQSQQKVFDVRLNG HV\VKDLDFDRVGHSTAHEI IPMSIRKGLSVQGEV\ST\FTQG KLLPLSFSKGYL*PIPKVCAL\YI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQS\GPRTPNPYALDNSSLM FPIL\A\FGVFIPTLFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRA S/VTVEGEVTGEIGAGLLV/LLG VEKDDDEQKAN/RDAEGQM/N LNVQQAGGSVLVVSQF/TLAAD TERGMRPSFSQGHHRIRAQAFY DYFVES/CRQQR*YAQGGLSAE FRLSNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTSIVLNALNA LGVSAAESGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTELPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLNFAETFARQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDS LNPAPLEALAGRLQGCLFSLYN SDLNTVIDNVLRJFPLLSWISF WLLYSIVPTIRVPNRDAIVGAFV AALLFEAGKKGFALYITMFPSY QLIYGVLAVIPILFVWVYWTCV TVEGEVTGEIGAGLLVLLGVEK DDDEQKANRLCERVLGYRIFSD AEG\KMNLNVQQAGGSVLVVS QFTLAADTERGMRPSFSKGVID DIGFNTEISQTRFHQASHLFKRR GIYRLHFARRRCQQIQRQRRR RFMQRTAVAITHQQRMKQGIL RLWRNWLLWLLILLRRNRLL RLLILLWRNRLRLLLILWLRR NRLLWLLILRLRRNWLLRLLIL LLRCNRLLRLLYRFNNWRKQR FVWTIIQQRFWRKFKIIQRERI RPSRLFAGITLLSLRKLTSQFS LCRSICIFCVYGHIMLILFAIAL LCLGELTCQFILLHRIDFIIVVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTA QLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTDTQCRHTSSS IGKRLAFCQNLTQIHTESTMKP WILLVMFISGVVMLLPVLGSF WNKDPFLDMIRETEQCWVQPP YKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRAP*/HQC* TPRFYWPITTVG*RMTIWSKKS AAYFLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	

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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCKIGAD*I QAW*KFCQWPCERADGRGCRK AER\CPCPKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADV KQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCKIGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVCNQTDWQSIRSSQGG RDQRFSTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGPDPVQLMNGHERSPS HSPREAKKSGSPLPTDIHCFSQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPPGKHGPQCEQRCPCQ NGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCQ PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERAAV PDVRK\CQDECPVGTYGVLCAE TCQCVNGGKCYHVSGACLCEA GFAGERCEARLCPEGLYGIKCD KRCPCHELENTHRGDDREKAEF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGPSRRIAGSGG EKYKRDEEKNTLLRGQNRGGR GKNPKKTKAWVKIQGQNKIEIS GVGADRKRFFREK

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22551	52919	A	22679	1	2210	MEQKGFEKNDTLIYEFFHIVAK PHPLPIKSSTYTTFQSARVTRFF LDAEKECRCQEGQVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLH VRWASTATIGQVSGFPGKIRVS PTTNLGSDSYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDG RLYVTNPCGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFKILKEK GYATGLIGKWHLGLNCESASD HCHHPLHHGFDHFGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLT VSWMPVIWSALSALLASSYF VGALIVHADCFMRNHTITEQP MCFQRTTPLILQEVAFLKRNK HGPFLFVSFLHVHIPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLSNSTLIYFTSD HGGSLNQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGGEVPQDRVIDGQDLL PLLGTQAQSDHEFLMHYCER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVVHHDPLLFDLSRDPSET HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASSDISASR PNILLMA\DDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TN\ETTFAKILKEKGYATGLIGK WHLGLNCESASDHCHHPLHHG FEHFGMPFSLMGDCARWELS EKRVNLEQKLNFLFQVLALVA LTLVAGKLTHLIPVSWMPVIWS ALSAVLLLASSYFVGALIVHAD CFLMRNHTITEQPMCFQRTTPLI LQEVASFLKRKNHGPFLLFVSF LHVHIPLITMENFLGKSLHGLY GDNVEEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKGMGG WEGGIRVPGIFRWPGVLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCERFLHAARWHQ RDRGTMWESPTL*PPCVSSQEG AGAC\YGRK\VCPCFGEK\VVHH DP\PLLA\FDLSDPSETHILTPASE PVFY\QVMER\VQQAVWEHQR TLSPVPMQLDRLGNIWRPWMQ PCCGPFPLCWCLREDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRTLLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRGCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDSGKRSSDSEAFET PESTTPVKAPPAPPPPEVIPEP EVSTQPPPEPGWGSETVPVPD GPRSDSVEGSPFRITQAHFSGVF DEDQPIASTGTDILDFDNIELVD TFQTLPRASDAKNQEGKVNT RRKSTDSPISKSTLSRSLSLQA SDFDGAASSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLFYSE DKSSWDNQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSTSKMQES PKLPQQSYNFDPDTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANAVDGDGLNKPAAKKKT PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISA VVHATDEEKLAVTN QKWTCMTVDLEADKQDYPQPS DLSTFVNETKFSSPTEELDYRNF YEIYMEKIGSSLPQDDDAPKK QALYLMFDTSQESPVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLEPAVGPKAACPLDSESAEGV VPPASGGKRCLFTTAPEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPIAKGT YTFDIDKWDDPNFNPFSSTSKM QESPKLPQQSYNFDPDTCDESV DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDGLNKPACKKK KTPLKTDTRVKKSPKRSPLSD PPSQDPTPAATPETPPVISAVVH ATDEEKLAVTNQKWTCMTVD LEADKQDYPQPSDLSTFVNETK FSSPTEELDYRNSYEIEMEIG SSLPQDDDAPKKQALYLMFDT SQESPVKSSPVRMSSEPTPCSGS SFEETGSPLRNTAA\KNQ\HPVP TRDWAP*PRSSHLAGCQRKSSQ E/VELGGPWGLGHPPFQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\VHPTDVS\SKT ALYSRIRTTEVEKPAGLLFQQP DL\DSALQIARAEI\TKEREVSE WKDKYEESR\REVMEMRK\LA EYEKTIAQMIEDEQREKSVS\HQ TVQQLVLEKEQA\LADLNSVEK \SLADLFRRYEKMKEVLESFRK NEEVLKRCQAQEYLSRVKKEEQ RYQA\LKVHA\EEKLDRANA\I
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLPTEAKAKSKNKVRGV QQLIQRLRLIKSPAIEIRMQIAG KLTSQAFIETMFTSKAPVEEAF YAKFEFECRARGADILAYPPVV AGGNRSNTLHYVKNNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAPQAELYEAVLEIQR DCLALCFPGTSLENIYSMMLTLI GQKLKDLGIMKNTQGK*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSPLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRMKKMMMMMM MMMRITLFFQQESQEAIFFPD LFPMCPFGCQCYSRVVHCSDLG LTSVPTNIPFDTRMLDLQNNKI KEIKENDFKGLTSLYGLILNNN KLTKIHPKAFLTTKKLRLLYLS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RCS /YIRIAEAKLTSVPKGLPPTLLE LHLDYNKISTVELEDFKRYKEL QRLGLGNNKITDIENGLANIPR VR\EIHLGNIKKKKIPSGLPELKY LQIIFLHSNSIARVGVNDFCPTV PKMKKSLYSAISLFNNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRGRPDSSMPDCCRNA ALEARSCQSMSTLFSNTVSPTQ DGTSSLPRRQSSFAKPLRALY DLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSLENEDDNTQCNRLAQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCPVSSCYKA WYTLAVSKVSGMVEGKAWIIL LLLAATHALLQRPQEGDITPL AGSRAAAVSCQARPFSTFSGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLFE TIRHEAEVSTDYKLSLFDLQTSS YQALQRVLVSLGHHDEALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGYLYSWLLAPGAG IVKFHEHYLGENTVENSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLNSTVDPT GFLRMVRRNNLFNRSCQSMST LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFPAPLHLPREPRAGVDGTD AERILYPRRAAPAASGVGSRPA GEAVRADEAGAAGLGGFQSER NRSWGGESLGSRQPQKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRISC MKREEVEATTVVEWFYRPEGG KDFLIYEYRNGHQEVESPFQGR LQWNGSKDLQDVSITVLNVTL NDSGLYTCNVSREFEFAHRPF VKTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGPAGSPAGPG RGEEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRAGK RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNTKCHVRNEQICNKLTSCKSCSLNLCQWDQRQQECQALPAHLCGEGWSHIGDACLRVNSSRENYDNAKLYCYNLSGNLASLTTSKEVEFVLDEIQKYTQQKVS PWVGLRKINISYWG WEDMSPFTNTTLQWLPGEPNDSGFCAYLE RAAVAGLKANPCTSMANGLVCEKPVVSPNQNARPKKPCSLRT SCSNCTSNMGECMWCSSTKRC VDSNAYIISFPYGCLEWQTAT CSPQNCSGLRTCGQCLEQPGCG WCNDPSNTGRGHCIEGSSRGPM KLIGMHHNEMVLDTNLCPKEK NYEWSFIQCPACQCNGHSTCIN NNVCEQCKNLTTGKQCQDCMP GYYGDP TNGGQCTACTCSGHA NICH LHTGKCFCTTKGIKGDQC QLCDSENRYVGNPLRGTCYYK TLIDYQFTFSLQEDDRHHTAI YFIVNPKQSNKNLHISINASNNF NLNITWPC*STAGTISGEETYIV SKNNILEYRDSFSYEKFNFRSNP NITFYVYVS NFSWPIKIQIAFSQ HNTIMDLVQFFVTFSCFLSLL EAAV VWIKQTCWASRRREQ LRERQQMASRPFASVDVALEV GAEQTEFLRGPLEGAPKPIAIEP CAGNRAAVLTVFLCLPRGSSGA PPPGQSGLAIASALIDISQKAS DSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE* G*SVRDVA*AQMCSVWVWAGRP LGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGSLTKMFKVISEGP MD*RPHPKVRPMT*HSTPAPAN FMGHFFWKIMICTDRTEVATLV AGVVSGASVGGKSPYRKWNS PEPDVKGPRVL
22576	52944	A	22704	2	382	

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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV VAYAPTELGLHEMHIKYMASHI LESPLRFYVTTPTVPSVSAYGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAEPRPRLSRA PGVDGAGASPLGEDTGPQAP GLQVLTERIPGPSAPTPEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREICVVD GWQSFRRQDYAFLQERGSGGD LWSSTLAQAMTLVESRHPRHQ ALSTQLLDAIMPYCGNTLRLGV TGTPGAGKSTFLEAFGMLLIRE GLKVAVIAVDPSSPVTTGGSILG DKTRMNDLARAEEAFIRVPSS GHLGGASQRARELMLLCEAAG YDVVIVETVGVGQSETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLIVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKVNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGCART CEVACVVAHPSEQELNADVFL PRLKVQRLDSISAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFGMITIQ SLPGDTRQQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDTAKIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPVHPVCAVSVRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMKNQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDESLVQ RLNILHENGFVIALDDFGTGYS GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIIHQIHTGEKPYECT ECGKTFSRKSQLIHQRTHTGEK PYKCTKCGKSFCQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGQIRELNWDVVR PEQFTGVATNCSGITYPQGGWL CPAELTRNVLELAQQQGLQIYY QYQLQNLSRKDDCWLLNFAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTPELAE LKQVLCYDGYLTPQNPNQHH CIGASYHRGSEDТАYSEDDQQQ NRQRLIDCFPQAQWAKEVDVS DKEARCGVRCATRDHLPVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPMAS TLAALNPRLWVRKLLKGKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPHELHPDSTLSMWPДNRIAR DAHLYRYDRHGRLTEKTDLIP EGVIRTDDERTHRYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVWRRERDLTGWMS LSRKPQVTWYGWDGDRLLTIQ NDRTRIQTIIYQPGSFTPLIRVET ATGELAKTQRRSLADALQQSG GEDGGSVVFPVLVQMLDRLE SEILADRVSEESRRWLASCGLT VEQMQNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNTDPLGLEVFPRPFP LPIPWKSPAQQQQWYPTFC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSER GKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYFPDCVRSRN EAGILVEQILSTLFSVGEHFSLK RAPFFKVPSLRSFYAFGGTTTG VVRNGNHGVNTPARKIHLYH CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHQLQQLIR LPGQQYDEESGLYYNRHRYD PLQGRYITQDPIGLK\GGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARPNKPPTPDPSKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTLYCRKWVK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WPVPSSIVSCTTG VP*VVCQWVFAWPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVGSCGAVLPHV KL RDV/VI/GMGAC/TDSKVNRI RFKGQAFGGIADFAMGR TAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKYGILGVEMEA AGIYGVA AEFGAKALTICTVSD HIRT HEQT TAAERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRVIDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGFRL*SSPKVGMQ HGS RQVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSGPATHLV RRRIVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQYA\ARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVVIGMGACTD SKVTRIRFKDHAF\A\ADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDVMEKYGIL GVEMEAAGIYGVA\AEFGAKAL TICTVSDHIRT\HEQT\TAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV\DARLTKEAQSA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGR\GHRDRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGAFRI PDVMRQAGCTLHEVGT\TNRTH ANDYRQADFQFDDFVMAFTQN INGPTQ\NTRALHGGHKRPDFLP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAFP\GKRCKLS VHLPFWGLKDGGPLL\TAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRISHRHHHFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PPLP/PLLAPLIATPP RTSQPLSPLISSSPSPSPVPGQ VSPFRETPVPPAMSPWPEDPRR ASPPDPSPSPAASASERVVPSP LQFCAATPKHALPVPGRLPPCA SGHAMPCWR\AKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAK\SMPDHPHECVYVVG*E PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPRELT*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCQLDSGAECH YRETGVELP*RSRPVGHGSSR HSRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASITLINANQ NSVSPYKRTFTRLTALMIKKKA AAQIHVGTSNGQYWRKLDNFNS PGGSSPVENSDCSTNSRLSFSPE NILIQNQDIVREAAVQGDGQKQ RQPQATDLDSGTHGSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQNANGLW KLKSTTPGGALPECFGTTDTTFS SAFCRKHGETQDTSQSSLPGTL HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFKSSQDPV LLSRIAWKDASTVTWVIEQDPV LRRRRRTRRRRTRMRRRRGR* */SKRRRMR/GRRGRR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALRELIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGAWRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV/*I RLNSANFTLNSLLPAEKKLAEE FAVSRMTIRKAIDLLVAWGLV VRRHSGTYLVRKDV LHQTAS LTGLGEVLKRQGKT VTSQVLIF EIMPAPPAIASQLRIQINEQIYFS RRVRFV\EGIPLMLED SYMPVK LFRNLSLQHLEGSKFEYIEQECG ILIGGNYESLTPVLADRLARQ MKVAEHTPLLRLTSLSYSEGEF LNYSVMFRNATQIQGWRSHFR RLHPKKSLTVPPERAPPVFGGL IMRKNHSQRIDSGVRERRRTAG WMKIISKRQRRRIGHGTCQHPA HGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVTKATEE DKAKNYEEALRLYQHPVEYFL HA\IKYEAHSDKAKESIRAKCV QYLDRAEKLKDYLRSEKHHGK LCLKDRV T
22608	52976	A	22736	545	791	
22609	52977	A	22737	249	1574	NHKAIDLVTKATEEDKAKNYE EALRLYQHAVEYFLHAIKYE HSDKAKESIRAKCVQYLYRAE KLKDYLRSEKHHGKKPVKENQ SEGKGSDDSDSEGDNPEKKKLQE QLMGAVVMEKP\NIRWNDVAG LEGAKEALKEAVILPIKPHLFT GKRTPWRG\LLFRPPGT\GNSN RPKAGAPKATNSTFFSVSS\SDV KSKRLGETEKL V*NL F\ELARQ HK\PSIIFIDEVDSL CGSRNENES\ QAARRIQNGSSLVQIAGGLGIN NDGDSGFFGATNIP\WVLD\SAI R\RKV*KTKFYIPLPEKACPRPD VSRLHLGSTPHN\LRVATFHKL ARKTEGYSGADISIIVRDSL MQP VRKVQSATHFKKVCGPSRTNPS MMIDDLTPCSPGDPRAMEMT WMDVPGDKLLEPVVCMSDML RSLATTRPTVNADDLL\KVKKF SEDFGQES
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLLPLQPV TARL CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHRQRSVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPNVVAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPFPASLIHPKPAK LPGWLCIVQWSLLAITRTPV RWAQQTETVGLVVGDVSDPF FGAMVKA VEQVAYHTGNFLLI GNGYHNEQKERQAIEQLIRHRC AALVVHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYL DVEFLSVALA VVHLGPQGTCSRLFLVARALV VAVSEMDKSLSAQAQIYFASSN GPVPDLAYQVDFPRLEIGL*FÆ YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTF SVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQ TASRSQALFEIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNENLSHTR LGHA*TLLKGYDLKVKEVAHA CGFVDSNYFCRLFRKNTSPS EYRRHRLHDNRICQFKTPTDN PENPDRYLTFRRIDKETSSLPKK VAPCKRLSVSRSSPKPSISIRRC MRMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFGLNAV VIGA SNIVGRPMSMELLLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWKEGAIVMMSGI NRGVATDASCFLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	

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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVG GTVEEGSRKH RPTCKKDFTKSKTV DQAPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKCRLEAQA LEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFPLWFPRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGKAQCKEIQKMIQEV KREIFQEIESLKKKPPKIQKTLDI LLKMQNALESLSDRTEQAEIN SELEDKVFKLTQSNKDKEKITR KYEQSLQEVWSYVKRPNLRIIG VP EEEENTKSLENILGGIIEENFP SFARDLDIQIPEAQR TTGKLI AK RSLLRHIVFRLSKVKMKERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDVKI*DI GVYSCTAQNSAGSISANATLTV LETSPFLRPLLDRTVTKGETAV LQCIAGGSPPPKLNWTKD DSPL VVTERHFFAAGNQLLIIGDS DV SDAGKYTCEMSNTLGTERGNV RLSVIPTPTCDS PQMTVL/HLLD DDGWGHCGLYVIIAVVCCVVG TSLVWVVIIYHTRRRNEDCSITN TDETNL PADIPSYLSSQGT LADR QDGYVSSESGSHHQFVTSSGAG FFLPQHDS SGTCHIDNSSEADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNPF
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGDLLDCSRKR LARLPEPLPSWVARLDLSHNRL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFPALQLKYLELNRNKIK NVDGLTFQGLGALKSLKMQRN GVTKLMDGAFWGLSNMEILQL DHNNLTEITKGWLYGLLMLQE LHLSQNAINRISPD AWEFCQKL SELDLTFNHLSRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RAD GMWWKQLVAGAVAGAVS/RT GTAPLDRLKVFMQIKRAILGQQ ETLMCRSASWLAPWLVPQPNH HLPYG
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPRAGAMRGSP GDAERRQRWGRLFEELDSNKD GRVDVHELRLQGLARLGGGNDP PGAQQGISSEGDADPNGGLDLE EFSRYLQEREQRLLLMFHS�DR NQDGHIDVSEIQSFRALGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRDHLLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTGMWWKQLAAGAVAG AVSRTGTVPLDRLKVFMQVHA SKTNRLNILGGL*SMVLEGGIRS LWRGNGINVLKIAPESAIFMA YEQIKRAIPGE*ETLPVLERFVA GSLAGATAQTIIYPMEVLKTRL TLRRTGQYKGLAGLRRGGILER EGPRAFYRGYLPNVLGIIPIYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVRTRMQAQASIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGILVKDWHPRPLGGKHC QLLGAFRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENЕКQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQQGRYHQLLL TKEEIEVQRSKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLLPLMVEDEGEPVTERE\R KREGERERGRERERRRRRKRK RRRKRRRKRRRRRRRRRG*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQQGRYHQLLLTKEEIE VQRSKKMCLLQAFLICCQKSHF LPGCTRSMVPASASGESLKLL PLMVEDEGEPVTEREQEEGGGE RERERERKKEKEKEKEKEKEEK EKEKEKEERIRVPLPRVELRLT NIAAKQVGNITLDVAAPADHPS ESSCVYVRFVIKIPVAASFRFKK SYVTNNVESCEDGIHYFWKSH MHSENSCSCKLPCPHLPAAER LGDALEPLLPTMRQRQCQNT GDGCDGRRQIGTRETEMHRDTS VAVKTQVDTSREGMGVEVPNS CFWRDTHMASGVGAAFEELPH DGTCECEPDEAPGAEEVCREC GFCYCRRHAEHRQKFLSHHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQACLWQRAGSS YSQHKDPHFTSFSTPRAVQNFD GFPCPFLRETTTLVLIPSVPLTDP GSFYRAWSFQCGRSPRPLLGR TLSQKFLRLRGRPRRPYMSTL TPF*STRIFERAFQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLLPLMVDER EPVTERE/REKGRGREREGERE KREGERERERERGERKGERER RRG*QPPFHNRFSEGQGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNIPVNN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVGLPYPSTPNVKPERE GCGGGVSGNSKQPGALETAESE GKKEGRREEGSRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSIINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPPEARPRIH LGAARGGDRTRGRPGRRGRDW TRLGREMAAAAVSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QK\VIHSEYQKSKRISIFLSMQ DEIETEEIHKD\ICQRGK\ICFIPPV RFSRAITMDMVRIGSPGNNFFN FPKTSWEYSLRLGEG\DVREEG LVPPGGL/EILILPCPQALGLDQ NHGQPRLG\RGQGAYL*CLS*K RLFCSHSGKLPPTPPGGWLFK EQICPPRSPVNNENDMK\VDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREREELQ WRRRRRRRRRRRRRRRQRQRA AAPAAPAGGIEAVNMAASASYHI SNLLEKMTSSDKDFRFRMATND LMTELQKDSIKLDDDSERKVV KMILKLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTVICE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPRLAVRKRTIIA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHLRGTMAVESTA TAAVAAEL/VSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MATESTATAAIAAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVEEEEAGEKTEDESLVE NNDSEEDARKELREQVYDSM GEKEEAKKTEDKSFAPETDKE QDCEMEKGREDMDISESAEEP QEKVDLTGLWLTEISEGAKGG GAPEGPNEAEVTSGKPEQEVDP VEEEKSVSETDVQKECREKGG WEKHREVIVSIEEKPKVSEEQP VVILEKQGTAVEVAAESLDPTV KPVGVGGDEPEEK/GTVPGLSR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTEGTAT RNYRKDRRCKGVSDYWECS*T GSESYSGGELYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPCNCLFFSQALFRSLVRHL RGTMAVESTATAAIAAELVSA DKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQK\HLVMGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG\KSLLELARME NGVLGNA\LEGVHVEEEEAGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLGAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I\KLCASC\GGVPVLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMAESTATAA VAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKLLGLGQKHLVMGGIP AAV\NAFQGAA\SLG\GK KYGET ANE\CGEAFFFYG\KS LLELARM ENGVLGNALEGVHVEEEEG\EK TEDESLVENNDN\IDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKEQDSEMEKGGREDM DISKSAEEPQEKVDLTLDWLTE TSEEAKGGAAPEGPNEAEVTS KPGQ\EVPDAEEEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLEKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAEESPEVQTEAAEASAVEAG SEVSEKPGQEAPVLPKDGAVN GPSVVG DQTPIEPQTSIERLTET KDGSGLEEKVRAKLVSQEETK LSVEESEAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEEDDKENDKT EEMPND SVLENKSLQENEEEEEI GNLELA WMDLDAKIIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQE QYL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLPAEIREK IENAKE\SR\SG
22644	53012	A	22772	52	161	FQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KA WWNLLRKSEPKSCGS*GGL STSRERL VECSSPLGLGYCG**L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARA AVGAARGIHIHRC GLTKRPDARRRRVAGA QGREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAAAAAA\WCFL QVESRHLDALAGGAGPNHG\NF L\DNQ\WLSTVSQYDRDKY\W NRFRDEVEDDYFRNW\NPNKPF DQAL\DPSKDPCLKVKCSPHK\A CVTQ\DYQTAL\CVSRKHLLPR QKEWGTWAQKHWGLDL*ILV K\CKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG\PCPCSSQSLEPPKHK GRKGVPCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSILPICKDSLGMFNL DMNYDLLLDPSEINAIYLDKYE PCIKPLFNSCDSFKDGKPLNNE WCLLPSQNPGLP/CAQNEMNR IQ\KLSKGKSLLGAFIPRCNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGAVSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDEVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVA AVSIELGAG GPVWRAAPRACSRLQLLRGFG LEGQWFGESCCRRGAS*EGSTR *PPRRQPWPEWVMSWVPET REPARISPAPAKQN*PPPAPKSP AAPA\PQAAVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEKKRRRIEELL AEKMAVDGGCGDTETWKDR\ WNHVKK\FLERSGPFTHPDFEP\ STESLQFLLDTC\VLVIGAGG\ LGCELLKNLALS\GFRQIHVID\ MDT\DVSN*IRQFLFRPKDIGR PKAEVAAEFLNDRV\PNC\NVV PHF\NK\IQDF\NDTFY\RQFH\IV CGTGTLSCARRWINGMLIS\LN YERMVS*DPSSIVPLID\GGTEGF \KENARVIL\PGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI \EYVGMLQWPKEQPFGE\GPL DGDDP\EHIQWIFQKSLERASQY NIRGVITYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*IITWVFNDV\DG\LYTYTFE GRKGK\ENCPAC\SQLPQNISVF LHQAKLQ\EV\LG\IIL\TNSASLQN EILPAITATLGGEKIGTLYLQSV TS\NEERNRANFFQTIERNWGLL DGPKTGRLLDVTT\QTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSSQSQ /HPAYHRITPT\LTNFALRLYKEL AADAPGNIFFSPVSIS\TTLCLLC LG\AQANNSALILEGLGFNL TET PEADIHQGFRSLLHTLVLPSPKL ELKVGNSLFLDKRLKPRQHYFD SIKELYRAFAFAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLA\NFILFSKAKVKA TLSSRVPDPKSRPVFLVDERTSF \QVPMMHQKEMHRFLYDQDLA CTVLQIE\YRGNALALLVLPDPG KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPITYTLNKITSLSQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVPVWVTMVGGE LSYLILDQTDREPEACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	

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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGLA IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQDQFA FEEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVKYGEMAGYSAEARAGEL LLG\VGIPVEQHYGPMSEVAPG WKLRLVLLAQALFADPDILLDE PTNNLDIDTIRWLEQVLNENNS TMIISHDRHFLNMVCTHMAD LDYGELRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEVKASSRQNPFIREF QDKKLFRNALEVEGLTKGFDN GPLFKNLNLLLEVGEKLAVLG NGVGKSTL\KTLVGNLQPDG TVKWSENARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVIKKPAKVL SAPFCKDSILEAIDAGIKLIITITE GIPTLDMLTVKVKLDEAGVRMI GPNCPGVITPGECKIGIQPGHIH KPGTGELNITTGGIVKARDTQIA LNDKSKGDVRVDGQNSLLETF NMYVGTS GTGTLTLTNNGTLN VEGGEVYLGVFEPAVGTNLNIGA AHGEAAADAGFITNATKVEFG LGEGVFVFNHTNNSDAGYQVD MLITGDDKDGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/ISEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPGKSLAL*GAGRGF YSGERTWTLSPSGNCAPYQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWAEFRGG AYSLRKAAMPHLAPEAVTLCSE GPLGPRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRHLRRGAFIKAGRHA G/PSLPVCLQATA\H*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCTGDQRK\RRKFL\ETVELQISLKNYDPQEGQSAFSGHPSRL*\VSPPLSSLVCVLGGPSKHL*RRLRPVGYPPTMDIEGA*KKLNQELKNLVKKAGPRKYDCVFWPQESLDSSKIPPNPSGPGFK*RAGKVPFPCLTNKGKHGLAQSGIEVEVPTF/LSFQMKG VYVWAVAVWSRE R*QTNELVYNIHLACQLSWVSL LKEKNWQ\NVPGPYIHKSTMGQSPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQTQDTQLITVDEKLDITTLTGVP EEHIKTRKVRIFVPARNNMQSGV NNTKKWKMEFDTRERWENPLM GWAST\WSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVSMSV\VL RQTLWRRRAVAVAAL\SVSRVPT/R RSLRTSTWR\LAH\DQTQDTQLITS**KIGISLTFNWPFP EEHIKNEKSGIFVPCSPITCQSGVNNTK\KWK\MEFDT\RRER\WEN\PLMG\WASTGLIPLS\NMVLNLPVLKE DAVS\FAEK\NGWELWTLEERK\VPKPKSQVFMGANFS\WNKRTRVSTKIGLALTISPA
22668	53036	A	22796	1	798	MNKVNPTQQDKEDHPELIITSIGDKRQLTLEAASGVCHRGQTQTRVKEESKKFLISMSFRGGKPVHKVVERACVCTCLHHTSVPATHNTQRRHTTPTTRKNGRKRGRKKEREKRKDREHNTGRRTKRKKTRNIGGQRTQQKQKQSEDKARREPGGGRKQGRGREDGTRQRRGGRTRNREEGAQRGRNGR/RGEGRRTEEETHMA*APDITATQQTEQQHGHTRQRDITLRRHTAEDAQPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGRLRYHDRDVWKPE PCRICVCDNGKVLCDDEVICDET KNCPGAEVPEGECCPVC PDGSR VTHRPKKPPGVEGPKGDTGPPR PKGT\PGPPGRDGIPGQPGLPGP PGPPGPPGPPGLGGKLLLPKLSY GYDEKSTGGISVPGPMGPSGPR GLPGPPGAPVSIQDVFICLLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGPPEGEPGASGPMGPRG PPGPPKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHDVIKK VKKKGEWKVLVVDQLSMRML SSCKMTDIMTEGITIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFFTDSC PDALFNELVKSRAAKVIKLTETI NIAFLPYESQVYSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCAT\KEYPAVRYRGEYKDN ALLAQLIQDKLDAYKADDPMT GEGPDKARSQLLILDRGFDPSSP VLP*I*LFQGMSY*SCLPIENDV\ YKYETSGIGGGHGVKGGASGT EDDDLWIALR\HKHIAEV\SQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRIIL LYIFLKNGITEENLNKLIQHAQI PPEDSEIITNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPHDKDIMEDTIEDKLDNK\HY PYISTRSSASFSTTAV\SARYGH WP*GTRPPGEYRSGP/RVFIIHFP LGGVSLNEMRCALRR*PRANG KWGGA**GSHILQPHRNLPGH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDVMI. NDLNMGEWKALLVDQLSMRM LSYCCLMTDIMTEGITIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFFTD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAYKADDPT MGEGPKARSQLLILDRGFDPS SPVLHELTFQAMSVDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTC MKHYQGTVDKL\CR V\EQDLAMG\TDAEG\EK\KDP MRAIVPILLDANVQTY*QIRIILL YIFLKNGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPYI STRSSASFSTTAVSARYGHW HK NKAPGEYRSGPRLIIFILGGVSL NEMRCAYEVTQANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLFR VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RNHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPQAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMA PNSIT LLGLAVNVVTTTLVLISYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYCAH WQTYVS\GMLRFGKVDVTEIQI AL\VIVFVL\SAFG\GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CS\NYSHVILH\GGVGKNG\STIA GTSVLSPGTPH/MGLIIIL\AIMIY *KVRQLMVF*KSIPCL*YPQCLG CVF\AKVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRPERCSS SSGGSSSSGDEDGLELDGAPGR GKRAAQVAAGKVGGA AVVV AEPEHTKKHKVLETLLITTEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVC\TCARNH TLALTETGSVF AFGENKMGQL GLGN*TD AVSPVQIMYNSLPIT KMA/CGYGLGYTEQKDEMV PRLVKLFD FPGHGASQIYAGYT CSFAVSEVGGLFFWGATNTSHE STMYPKAVQDLC SWRIWSLAC GKSSIIVA ADESTISWGSPSTFG ELGYRDHKPKSSTAAQEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGECGETLFVWRSQKLEG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCLAGVRVRTTVSGSCAAHS LLITTEGKLWSWGRNEKGQLG HGDTKRVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMGGQLGLGNQTDVPSPAQI MYNGQPITKMACGAEFMIMG LQRKPLFLWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGQILPVPNVVVR DVACGANHTLVLDSQKRVSFW GFGGYGRLGHAEQKDEMVPRL VKLDFPGRGASQI/SCWL/HTC SLCCQ*NGWSVFLGGHQHLP*I YHVPQKQCRTSAAGESGTAC GKSSIIVAADESTISWGSPPTFG ELGYGDHKPKSSTAQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPEYNPRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSAL CNAQRWLNFGQDGTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSAL CNAQRWLNFGQDGTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS

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22685	53053	A	22813	198	380	ASSEDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAAAS*DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRTR*SKATYPTPSNDQTRTIRT SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRTAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPPA AGTCR*RPAGHCPAGAAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPLYFNWKKQR FAAKPHFRRPQSSLNPQQWLLA GLLQEESSSLGTDAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVS LHPAVIGLKSFLKKPD QLRKLF\IGGLSFETTTDESLRSHF EQ\WGTLTDCVVMRDPNTKRS RG\FGFVITYATVEEVDAAMNA RPHKVD\GRVV\EPKRAVSREDS QRPGA\HLTV\KKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDR\GQWPRKRGFVFT FDGHDSVDKIVIQKYHTVNG\H NCEVRKALSKQEMASASS\SRQ G\RVGSGNFWCGRT\NGFGGND NFG\RGGNFWSVVAFGG\SRG GVWIWVA VGDGYNGFG\NDGS HFG\GGGSY\NDFGDFH\NQSSK FWTP*RGGNLGGQKLWPPMGG GG\QYFAKPTKPKVA YGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHGSCHHNRP GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKG NVRSE SP/PQSLYWG T ASGAVRRGPPSS RNQNGRSTD SLH CMPGKDTQ\ P NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCEKRGAPG\PP LAPGPARG PVAAA VPP/GPGASRARP*DAA AAAGGRGPPEQ*T*KAWGLHP GTGSL/RGHPAPM*PLLRAFPRS PLHPLPPPHPLPRRAA\SNPGTS KCRTAAGTRQWGGRQSQLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGPGGKSGFVGKVQGP HAVCS LGTWCLVSQPLHP\G*KGPMYS SG\VASEGGSPKPWQLPRGVEP MGAQKSRTEVWEPLPRFQKIY GNTWMPRIPMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP*DAP GRVQDPRPQAPQL\PPGLGAPSR VRRPPRRPVDR TLPGGPRPPA AAA\GPTGGRGS\PRAGGTAAA TGPRAGPGARGAAGSAPFLTDP NM\GRPPPPATTTPGAATAPGP REEAPGKFRVSPPGPSGAGGPP TRASPTPTAAGGGGGDSEGE GP ILLVADAG\PDSARSPPGLPGCV LSAAPRSRRDPDAVGG LAASA AARRLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEVLT KL\CRKKPKARQFFLRNDIVV* GNIVIQKKKYIKQHIPL ENVTID SIKDEGDLRNGWVIKTPTKSF\A VYAATATEKSEWMNHINKCVT DLLSKSGKTPSNEHA AVWVPD SEATVCMRCQKAKFTPVNRRH HCRKCGFVVCGPCSEKRFL LPS QSSKPVRICDFCYDLLSAGDMA TCQPARSDSYSQSLKSPLNDMS DDDDDDDMQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTD TGKT PTRRPVLVDH\NRLPEGSRGRL AVAVAGDH PAAVQVTMTLVN DTGFDPVFSGSIAESWGQHSGT PSYC*DWEAATMLRAFPLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDT PNILYFMQF
22700	53068	A	22828	2	91	

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22701	53069	A	22829	1	1188	MGAEPSLLTSLGTLWSGERFQC MRAKIWERSRKGRFFSTDVISP TKDSFAGPFQPISTLVQHQRİY GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEA FIRPVA KAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\ PAPPKAEAKAKGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLRRPGRPLR\RRQP \KYP SGRAAPRRNKLD\HYAIHK FPLT\TESA\MKKIEDNNTL\VFİ VELLKATTKNQIKQGC*RSLYD İ\DVGQGSTPWISAWMGEKKGI CSDİLAPDLPIAFGMFANKIWGFİ
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWGQA VSQQSCALEPRTGEEGGKGIQG PASGLFPTGEEISVVPNRWLDA SLSPVILGVQGVGSQCLSCGVGQ EPTLTLEVRLGASSLGTQPQML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAKE S\KSFTFYRRDMG\LT\SSFESAA\ YPGWFLCTEPE\ADQPVRLTQL PENG GWNA PITDFYFQQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSVRWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTPPRPGSGSRA MAGNCGARGALSAHTLLFDLP PALLGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRRAIHLITNYGA VLSPSEKSYQEGGFPNLFKETA NVTVDNVLIPEHNEKGVLLKSS ISFQNIIE\GTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKKMQCKKHWKRFLSELEVL LLFHHPNILELAAYFTETEKFC LIYPYMRNGTLFDRLQCVGDT APLPWHIRIGILIGISKTIHYLHN VQPCSVICGSISSANILL\DDQFH PKLTDFSMAHFRSP\LEHQSCCI NMPSS\SRKHLWY\MPEEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLDDPKHIQLRDLLRELMEK RGLDSCLSFLDKKVPPCPRNFS AKLFCLAGRCAATRAKLRPSM DE\V*RALESTQASLYFAGDPP TSLKALRGP\SPLF\LEKVT\SIPV \EDDE\KPNNNLLPS**KALRMK RWPQK\TPF\ECSQP\EVWFLSLE QKAREARENEEACNMPSSS\CE ESWFPKY\IVPS\QDLRPL*GK*K ILSSQA\SGHSC\RTKPVESSCSS KFSWDEYEQYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGPSDGPSTYGRYYGPGGGDV PVHPPPLYPLRPEPPQPPISWR VRGGGPAETTWLGEggGGDG YYPGGAWPEPGRAGGSHQEQ PPYPSYNSNYWNSTARSAPYP STYPVRPE\LQQQSLNSYTNGA YGPTYPPGPGANTASYSGAYY APGYTQTSYSTEVPSTYRSSGN SPTPVSRGIYPQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNRSVPQSGPTVRPQEDAW ASPGAYGMGGRYWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQPKDSSYPYSQSDQSM NRHNFP/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHP\NNQDQSSSLPEE CVPSDESTPPSIKKIHHVLEKVQ YLEQEVVEEFVGKKTDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAIKLEKKR IMKGFITKWKPVNTLTKEHLIW LITLFLKCLLMTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGSGSPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLEGSDDLSSINTMMSA VMSVGKVTENGSGSPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTQHQLTMHIRQHN TDTGGADHSCSICGKSLSSASSL DRHMLVHSGERPYKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHNL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRPST*GRRNP PPKRRSVSAES*RHWQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKGKENP/PKGPPPP THPQTPPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	1	2355	MVGSRRISGVIPLPFTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSSIRQFPT APRSGYPGTLCPSTFLGPRPRTC EYHSPVLCAPSSRASPSATT STRTLWGPAGSHPFVHNTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGPSFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSYSSTGG LPGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSLGHTRCCKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTRSAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPGRQ/NVRYNQR SQTSTRS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDGPQAVSSGHRCEK AGTAPGQTLAPRGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	1	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGLQTDLHTQR/LGYRV TVEDLDREKEAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPAVSKAPSMDAQQERHK SQDCLGLLAPLAPAAEVPSTAP MSGKKHRPPGPLFSSSDPLPAT SHSQDSAQVTSLIPAPFAASM DAGMRRTSPGTSAPAAAAAPP STLNPTLGSLLIEWIEALHISGPQ PQLQQVPRGQNQRSQTSRTSSC PKRK/CHLQLLQLYGRPPGTKA EEG\PASSHCQLTSSSNTVSED GPQAVSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPLELGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSKPVLCA PSSRAS PSSAT TLS TRTLWGPGAGSHPGVHNTRL SPDLCPGKIVLRALKESGAGMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGSPFVFP RPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSSYSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSRAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPGRQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDGPQAVSSGHRCEK AGTAPGQTLAPRGGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSPFSPSPSSLCWDLPV APTLWGPAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELMHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPEQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSYSSTGG LLGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPPRSQGS PRRRKIALPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPPST LNPTSGSLLN\EWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLII

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCPRPSSTTSGSAM T*RGPWRS PGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRG PASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGRSQKPVHPEG DMTMNIKKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDNSIDSWKNAGR VFKDS DKFDANDPILKDQTQEWGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTPRR FSVILQDLCSILGDSCLQFHLHR VPQQVSAVLLRVSGASPSATT LSTRTLWGPAGSHPFVHNT RLSPDLCPGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPSF VPRPGPLQTDLHAQSSEIRYNH TSQTSWTSSNTKRNAISSYSST GGLPGLKQRRGPASSRCQLTSL YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGSPRSQDS RPRRRKIPLPRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDLPATSYHSRDSAQVTSILPA PFTAASSDAGMRRTRPGTSAPA AAAAAPPSTLNPTSGSLLNEW MEAPHISWPQQLQHVSRRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEGVPASSH CQLAHSSSNTVSEDPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGPTGPPSI
22724	53092	A	22852	1	3392	MDKYLLHDP RPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGYPGTLCPSFLFGPRP RTCEYHSPVLCAPSSRASPSA TTLSTRTLWGPAGSHPFVHNT TRLSPDLCPGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTV PEVTGDARSAFWPLRDNGGSP FVPRPGPLQTDLHAQSSEIRYN HTSQTSWTSSST
22725	53093	A	22853	40	409	WKMRHETRYNVLVSRGVGCH RLFFLNGVFEHLGRAVQRRKV DTEHQLLRAAVPANQEHRGLT QSQHVDGHSLLLLTLPNSFLCQI QEPSLG\SGSGALSGNVRIRPQA QEAPPEPSVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFFVYQVS LRQGPHGDGARRPRVTAPLPQ AAHCVLAQDPENQALARFYL\H TERTIAKRLVLRDPSVKEELL CRGCSSLLVPGLTCTPAPRDRC RGQRWTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPAPRRKVGLNLAPVTEPR DQPWAMIIDVF\SRYSGRGQPR QT\LT\KGELKVLMEKELPG\FL QSGKDKDAVDKL\LKDPGRPM GDAQGGTFSEVHPCSVAAIT\SA CHK\YFE\KAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMMLLQYNTCS
22731	53099	A	22862	7	522	SVWWNSNGLQSNMPKFYCDY CDTY\LT\HDSPSVRKTHCSGRK HKENVKDYYQKWEEQAQSLI DKTTAAFQQGKIPPTPFSAPPA GAMIPPPSLPGPPRPGMMPAP HMGGPPMMPMMGPPPPGMMP VGPAAGMRPPMGGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTEKPYKCNCEV KAFHRSTCLHAHKRTHTEKPY YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKECKGAFKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSFHNHLMHTGEISHTC KICGKAFYSPSV\IQTHE*THT
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVML ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSLIEKKVNEIKDDSH CGETFQTQVPDDRNLNFQEKKASP EVKSCDSFVCAEVGIGNSSFNM SIRGDTGHKAYEYQEYGPYPY KCQQPKNKKAFRYRPSIRTQER DHTGEKPYACEKCGKTFISHSG IRRHMVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERHT GEKPYECQCGKAFHSSSSFQA HKRTHHTGGKPYECKQCGKSFS WCHSFQIHERHTHTGEKPCECSK CNKAFRSYRSYLHRKRSHTGEK PYQCKEKRKAFTYPSSLRRHER THSAKKPYE/CSFYHERHTHTG EKPYECKQCGKAFRCAPHLRR HGRTH/S/AEKPYECKEKGKAFR SASHLQIHERHTQTHRIHSGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKEKGKAFSAKNLRIH ERTQTHVRMHsverpykckic GKGFYSAKSFQIHEKSYTGKPY YECGLQLPRTAESVDSEKLQG PGKQETHVQLLSLYCLRRVLDC
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTIY TRIHI/GEKSCDYKCKGKAFNQ YSSLRRHES\HTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAGLPLG AWRLYLRLRHRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLLQVLR\SWPWC NKEKLTMEERKVKRRSPKSFSA HCTQVVNVQKKMSIPVSK\STG FSNPASQVNFTSRPKVKKEVM K\EKTKPQGLEEGQRHSSQLPIQ HSFLT\DVSRCSRKMERGLLSL\ LNDFHSWKTFFKHFGN\ECN\EQ MEHVSSELQEKLARLNLELYG ELEELPEDKRKTASDSNLDRL SDLEELNSSIQKLHLA\DAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWPLKLPP RLAVREGLRCGLTRDVMPPSM SGVVVGPPGP\PPGPCGDTTSGP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSCRGPRWQLRAAWAGR LSSSPVSALLTFKVILSTGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSIEPAIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRSNIIAHFLWKVFATQQUE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPSEWACDDLI KEEKDETDEFEECITDPLLREH LSVLSRTFANQRLVQGDskLF FNNVFTVEPLGWSERKEMAEIR DVQKKDTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQRNRTKKEY/SLRI PFGLPGDRMCFFTHRND/PTG NEVTPPSLAADLGQQFGGDAT DRQPWMIHQMLIHQGEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQQRSCFALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPLQQQVDSQHNGDNNSESA P*QRRADSIHRSSLHIKKRPPSE DVSRCFLCIDLAFRQGFTFNKK GIRVRIPFGLPGDRMCFFTHR DDRPAKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSAFISETDMCLLC PFIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPSSPNPAPTLCPCVQPPR GPVSVSVPVSVMGSRAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRRKQRRKQPWSSPARGA *PGRPRPSLRAAGTRRRRKRA SWTRCSNTCPGRCRTC SRNQ SCPSLLHLLLLFGSFFSY
22748	53116	A	22879	1	1339	MPSYKGCGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRSARSSHC WCTSWEDPPEATAGEEKRIHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPRDRPGSRAA AVIWERPCCDRLIADRTGPPNSS EPHCRAATIPLTWPLPEGQTLT LKALAKMAAPALLLLALLLPV GAWPGLPRRPCVHCCRPAWP/L WTLCPGEKGEAGVRGRAGRS KEGAA\GCPGPAGPQSARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFQAVPFDTELVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLLA RRATPVWSVPEELPAVLPGQDE LGSLQLHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFILGEGGECYY PRSLFTVANFTVGKRV\KTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGELQTTSQGNKRGYKQME EHSMLMG\GRINIMKMAILPKVI YRFTIPIKLPMFTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTILQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQASSTP KDHSASPATEQSWMGNDFDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLEKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFDQVEEGEIQTIREYY EHL YANKLENLEEMDKFLDTY TLPRLNQEEVESLNRPI TGSEIE AIINSLPTKKIPGPDRFTA*RRP* MT*WS*KPWHENYVTHAQASV ADSIKWKKGKYK\HHQRIL*TP LRK*TRKSRRNG*IPGHIHSPKT KPGRS*IPE*TNNRF*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRTLKDHSPD**RRKL RKIK*MQ*KMIKGISQSRSHRNT NYHQRTL*TPLHK*TGKSRRNG *IPGHIHPPKSKPGRSQIPEYTN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRGA
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNNRL*N*GSS**PTNQK KPRTRETDSRILPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRRNG*IPGHIHPSKTKPGR S*IPEETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIIGSSGQGNQARERNKGYSNR KRGSIQIVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGGSPSQGIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA/PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNTNYHQRT Q*TPLHK*TRKSRRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNKL GNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTY\VGPKFLRNTRFAKKHNK KGLKKMQANN\AKAMSARAE AIKALVKPKEVKPKIPKGCS/RR KLRFDFAYIAHPKLWGRRCFVA RFCQGASGCSGPKGKAKVPKA KVKVS/PKAKAKAKAKDQTKA QAAAPAL\PAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNERNEDACRY/GS/AIG VLAFLASAFFLVVDAYFPQISN ATDRKYL\VIGDLLFSG\VLASLA YQRYKAGVDDFIQNYVDPTPD PNTAYASYPGASVDNYQPPFT QNAETTEGYQPPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGGSGDGDMEAGYGAAGA GGSFNLRRFLTQPV\VARAVV L\VFALIVFSCIYGEYSNAHES KQMYCVFNERNEDACRYGSA\IG VLAFLA\SAFFLVVDAYFPQISN ATDRKYL\VIGDLLF\SALW\TFL WFR/VGFCFLTQWAVTK\PKT VLVGADSVRAAITFSFISFSWG VLASLG\YQRYKAGVDDFIQNY VDPTPDNTAYASYPGASVDN YQPPFTQNAETTEGYQPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLGA/CRGQFCGCLQNR YGEEVRDALDPNWHCP\HCR GICNCSFCRQRDGRCATGVLVY LAKYHGFGNVHAYLKSLKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSVPKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDLFEAN DLFESRNMTQNRIL/P/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHIYNTKLGAHKCDNSSMSLH MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGEAPEDPPCSQEEATTEAPE HAGSLHHRPVVWVGIFLYFRL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGKWNPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSVDKWK NKPWCIGHTGLLSSTVPPGEPGC PIPELSGLLMGLQTTSSRCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRRCR PQELQLHYLQKCMDYDGNLL DGFRTLPPQSTHV\HKEEGSEQ APLMSEDEL\INIIDGVLRDDDK NNDGY\IDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFETSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAE\NHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYYLLHLQSLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDDWKG HPRDYGSQQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAE\NHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYYLLHLQSLEEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEDDEQTLYRVREWDD WKGHPRDYGSQQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHDELQPLRPEL FÆTGRQLLDEVEVATDPAGFR IVQEK\VFKG\LDLLE\RAAEML SQSTLFGRECRFWKDLSPTHLI TFWGP\AFQGA\PLKQVNPSKR LRILQR\AREHF\NYLTQCHC YHVGQSFEL\PKTMNNSAENH TANSSMAYPMLGAM\ASQRQA KIQRYKQKKELEHRLSAMKSA VESGQADDERVREYYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQQEEQEEKE EEDDEPNFHRAREWDDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSLLQSKQMCNQLPP GSTRDGSWKFRQDPRLGKNA/C DCDSCIASEFGVRGYPTIKLLKG DLAYNYRGPRTKDDIIEFAHRV SGALIRPLPSQQMFEHMQKRHR VFFVYVGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDTDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVP TVVVLNTSNQQYFLLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVFDAKSTIV SIFKSSPLMGCFGLPLGVISIM CYGIYTADTDGGYIEERYEVSK SENEHQEIEESKEQQEPSSGGS VVPTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRGTAPAKKG GEK/RKGHSAIN EVVIQEY TINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPYRIRVQLSRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNELMYGEK/RKGHSAIN EVVIQEY TINIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKA LCAKGIRNVPYRIRV QLSRKRNEDE DSPNKRYTLVTY VPVSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINVVTREYT INIHKRIHGVGFKKRAPRALKEI RKFAMKEMGTPDVRIIDTRLNK AVWAKGIRNVYPYRIRVRLSRKR NEDEDSPNKLYTLVTYVPVTTF KNLQTVNVN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGFRVGQ ALGERLPRETLAFREELDVLFK LCKDLWVAVFQKQMDSLRTN HQGTYYVLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPWEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGP/T GNRTVQLTWQPLPEPELELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPELELRP RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPIILHAHTLNPAVW LAWAVEGEGSLTLNIWICPWQI EPLRHLAYTPGSDATSLTVPTR VISPLCVDSWLFTDPLMKTHAP ERTFLSFPAACKRQAHLCLVAS NCDKPMYVKLVKAHCAEHQIN LIKGDNDKKLGEWEGPCTIDRE GKPCVVGCSCAVVKDY/GKE SQAQDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSQYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EK\RAHLCVLASNCDEP MYVKLVEALCAEHQINLIKVD DNKKLGEWVGL\CKIDREGKPR KVVGCSCVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSSS RSPSSGRVNLHPPQTPSSH*SHL SSRSCCSAPLLTYHSSSLLLVCS VPFPFFPGFPGENPLFVLGSAP
22799	53167	A	22930	1	1011	MCLRVIFTIGAVSVILSFLSLFFII LDQLQLVIPQSSLSSSSNLEDPY SESYAAAARRPDSASTEPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPRTLWPTTP AGPFCRMVAHNQVA\ADNAVS TAAEPRRRPEP/SPSSSSSPAAT ARPRPCPAV\PAPAPGDTHFRF RSHADYRRITRASALLDA\LGF YWGPLSVHGA\HEPLRAEPVGT FPVRDS\RQRNCFALSVKMAS GPTSIRVHFQAGRFHLDG\SRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQRIIRPP VG\REN\LARIPLNPVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPESVLPLGAPP\ SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLELERCQHCPA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKVI PLGPPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRLPRLCGLRSTITP KPIPGGHRKKPLLAL\GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPSPRQPFAPTDETRCG DDRISFCNYV

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPEVLPLGAPP\ SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFP RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLL FQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLAS Y
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQH PAAAPV PVR CFTFC FTDIVIMPKRKSPENTEGKDGS KVT KQEPTRRSARLSAKPAPPK PEPKPRKTS AKKEPGAKISRG A KGKKEEKQEAGKEGTAPSENG ETKAEI HISRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRQH PAAAPV PVR CFTFCFTDIVIMPKRKSPEN TEGKDGS KVT KQEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RK TSA
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRALRVSSCSGR GSIQRRFYAVPVR CFTFCFTDIV IMPKRKSPENTEGIDGS KVT KQ EPTRRSARLSAKPAPPNPEPQPR KTS AKKEPG AKISRG AKGKKE EKQEAGK IEGTAPAENDET KAE EAQKTESVDNEGRMNCP
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLSRCAYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLLEALALRNVRQLEDLVIEAV YADVLRGSM DQRNQRLEVDYS IGRDIQRQDL SAIARTLQEWG/C HQHLLSLRSAASQRQCGYHK LHDKQRLLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQFLLAKS A\KGAVLATLIHQVLE\APGVY VFGELLDMPNVRELAESDFAST FRLLTVFAYGTYADYLA EARN LPPLTEA\QKNKLSDTFSV\TL AAKVKCIPYAVLLEALALR\NV RQLEDLVIEAVYADVLRGSLDQ RNKRL\EV\DYSIGRDIQRQDLS AIARTLQEWCVGCEVVLSGIEE QVSRANQHKEQQL\GLKHQIES EVANLKKTIKVTTAAA\AAATS QDPEQHLTELREPAPG\TNQRQ P\SKKASKGKGLRGS AKI W\SKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGT FATVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIQEDKLRQGILYGYSQQV NQAMDSGLRP\VVD SVN AIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAAHSALKQSD DLKPVFDQAFTKVVTTPADAL QPLIPAAQTFTQQLVMVGDIYA QQGTQECGKTFSRASYLVQHS RIHIGKKPYECKECKGAFSSGS YLVQHQRHTGEKPYECNKCG KAFTVYQGQLIGHQSVHTGEKPF ECKECKGAFRLNSFLTEHQRVH TGEKPFKCKKCGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSTPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNLKVYLGRAG SQAATGGPSPSLPNLHVKKLRP RKAEA WPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPTLISLGSNFGG MVEESWCRMNPDSGRPKEVAP WPP PSTK
22821	53189	A	22952	1	591	MGP HWKDFKEIDVKKYIDALSI HTYTHTHTHHADITDGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVPPQLK SFQKIQVWLRRILPKPTRKSCT\ QNMHWPPRSRTLKAMRDSIPE DLVF\PSEIMCMRIHVKLDGSRL IKAHLDKAQQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDEFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIIFVPVP QLKSFQKIQVRLVRELEKKFSG KHVVFIHRRILPKPTRKSRTK NKQK\RP RSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHSLSEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNIIEAL LLLLISESMLANKLLLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASFPVPLHRCSAGSQPPGPVP EGLIRIYSMRFCPYSHRTRLVLK AKDIRHEVVNINLRNKPEWYY TKHPFG\HIPVLKTSKCQLIYES VIACEYLDDAYP\GRKLFPYDP YERVRQKMLLELFGKVPHLPK EFPGSVEDVGENAPNLKAALR\ QEFSNLEEILEYQNTTFFG\GT SMIDYLPL/WPWFER\LECMGY WNCVSHTPALRLWISAMKWD PTVC\ALLMDKEHF\QGFLNPYF QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDTDMAQLEACV CSIQLEELV*GASKLVPMGYGI RKLQICVVEDDKVGTDLLEEI TKFEEHVQSVDIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRAERKFYKQMNPGVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQQAVSNL EAWLN\NIRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLDNKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQIQCVVEDDKVG TDLLEEITKFEEHVQSVDAIAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLF\GSDNEEVEDKQAGHS CGEER\LR\HYAGEEGPRKPAL/ VWPKSLPSLLDVK\PWDDDDGP WPSLEACVR\SIQLDGLVWGGF PSLVPVG\YGIRK\LQIQCV\VED DKVGTDFPWRREIT\KFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVPRTRPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPSGRAVN\DPLTIFHGNTGKC IKPGYGWIVADHCDATEDKLW KWVPQHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSLYGAARYRLALKDGHGT AISNASDVWKKGGSEESLCDQP YHEIYTRDGNSYGRPCEFPFLID GTWHHDCILDEDHNGPWCATT LNYEYDRKWGICLKPENGCED NWEKNEQFGRCYQFNTQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLPSPSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTPSKQSNNKYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLFLTLTQGTGSWAQS ALTQPASVSGSPGQSITISCIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGISSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSSTVVFGGTSVTVLGQPKA APSVTLAFPPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTPSKQSNKYAAS SYYLSLTPEQWKSHRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEGHP\DK\CDQIS\DAVLDA HLQQDPDAKVA\CETVAKTGMI LL\AGEITSRAAV\DLPRKVRE SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNKLAELRRN GTLPLWRPDSKTQVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMRDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLT\GRKI\VDTYGGWGA HGG\GAFSGKDYTKVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTDTNMNGQLNGFH EALIEEGTFLFTSKADGEGHPD KICDQISEAVLDAHLHQDPDAK VACETVAKTGMILLAGEITSRA AVDYQKVVREAVKHIGYDDSS KGFD\YKTCNVLVALEQQSPDI AQGVHLDRNEEDIGAGDQGLM FGYATDETEECMPLTIVLAHKL NAKLAELRRNGTLPWLRPDSK TQVTVQYMQDRGAVLPIRVHTI VISVQHDEEVCLDEMRLALKE KVIKAVVPAKYLDEDTIYHLQP SG\RFVIGGPQGDAGLTGRIIIVD PYDCWGAHEEGAFSGKDYTEKV \SRSAAYGARWVARSLVKGGL CRRVLVQVPGPCKPDEDLYLE CEPDPVLALTQTLSFQVLMPSG PLPRTSVVPREQQMLPLKDSDL LTQPWYSGNCDRYAVESALLH LQKDGA YTVRPSSGPHGSQPFT LAVLLRGRVFNIPRRLDGGRH YALGREGRNREELFSSVAAMV QHFMWHLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVL ATESDWADCKSPQPWGHMLL WTAVLSLAPVAGTPAAPKAV LKLEPQWINVLQEDSVTLTCRG THSPESDSIQWFHNGNLIPHTQ PSYRFKANNNDSGEYTCQTGQ TSLSDPVHLTVLSGQWRKAPG WTWEGQDG*NLLSGRGLQERG VACLLGSIASCLSTYQWLFLP
22849	53217	A	22981	32	1150	EKAVTAVLWAPARLQGVMGIL SFLPVLATESDWADCKSPQPW GHMLLWTAVLFLAPVAGTPA APPKAVLKL\EPQW\INGGSRED SVTL\TC\RGTHSPESDSIQWFH NG\NL\IPHTTQPSLQVSRANNN\ DSGE\YTCQTGQTSLSDPVHL\T VLSEWLVLQTPHLEFQEGET\IV LRCHS\WRDKP\LVKVTFF\HNG KSKKFSRSDPNFSIPQANHSHSG DYH\CTG\NIG\YTLLFIPRLLTIT VQAPSSSPMGIIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPT NPDEADKVGAE\NTITYFTSQW HPGWLWEEPDDQNRILVSIVLA LGIWRRNSEREDLVFPGLKFPL GEDTGRCCQFPKEKVFLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRG\QILMPNTGHGSN /KKTkHMLPSGFRKFLVPSVKE LEVLMCNKSPCAEIAHSVSSK\N KTIVERAAQ/LAVRVTNPNA LRSEENE
22851	53219	A	22983	103	564	GIFRGIMAALRPLVKPKIVKKR TKKFIRHQSDRYVVKIKRNRK RGIDNRVRRRFKGQ\NMPNIGY G\SNKKTK\HMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSFQGTGKGLRGER SLPNWAFRVTNPNA LRSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDLPDSASRVF/CGDASS NMGEHRMNVNAIILAQKNML D\RFECTNEMLLNFNNLSSARL ASRLSERFLHHTRTLVE MKRDL DSIFRRIRTLKGKLARQHPEAF SHIPEASFLEEED\EDPIPTQAPT TTIATSE\QSTG\SC\DTSPDTV AS PSLEPLASEDL SHVQALASPAI NGPQPDQIDEEMTGR IALPARC
22854	53222	A	22986	3	275	MRTVAEKVDAVRIVHIHSVINL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGWYHS HPHITVWPSHV GKYHGVAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLES DA FLVCLNHALSTEKEEVMGLCIG ELNDDTRS DSKFAYTGTEMRT VAEKVDAVRIVHIHSVILRRSD KRKDRVEISPEQLSAASTE AER LAELTGRPMRVVGWYHSHPHI TVWPSHVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEIP IHIV PHVTIGKVCLES AVELPKILCP/ QEEQDAYRRIHSLTHLDSVT KI HNGSVFTKNLCSQMSAVSG PLL QWLEDRLEQNQQHLQELAHQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQAVQA VHLESDAFLVCLNHALSTEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRJVHIHS VHLLRRSDKRKDQVEISPGQLSA ASTEAEKLAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMDQGFVGLIFSCFIEDKNT RAGRVLYTCFQSIQAQKSSESL HGPQDFWSSSQHISIEGQKEEER YERIEPIHIVPHVTIGKACLESA VELPKILCQEEQDAYWRIHSLT HLDSVTKIHNQSVFTKNLCSQM SAVSGPLLQWLEDRLEQNQQH LQELQQEKEELMQELSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKKKSSCISDNFFLLAI MVNLLQIVRDHWVHVVLVPM GFVIGCYLDRKSDERLTAFRNK SMLFKSFPHRELQPSEEVTKW
22859	53227	A	22991	272	1241	FPGGAACDICWVKEENGSLMS MKMGWKAKSCLPVTVHPRCL TPYSARLSSTFPL*NSITGP*QS PACKRPF*LTTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGVPVLPPLRPRKHY APGGLP\PPASLLEDDDDTFCTS QAMQPTAPTCLSPALLPEKDS FSSALDEIEELCPTSTSTEAATA ATDSVKGTSSEAGTQKLDGPQE SRADDSKLMDSLPGNFEITTST GFLTDLTLDDILFADIDTSMYDF DPCTSSSGTASKMAPVSADDLL KTLAPYSSQPVTSPQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTEGIPTV PGLR\HVESGSLRATAQRLPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVGPHALRW NRGEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVWTKRLQDAILVLV*EFRL HSPALRLCVMKQVGMSQGELE WGQFLKLSSRNKRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPITTSLSPLAGVSSTKKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMVAFLFANGTEEL PVPLMTPTRQKKVIPLIPLMVG LGVSASTIALGTGITGSTSVTTF RSLSNDFSASITDISQTL SVLQA LVDSSAAVVLQGQLRGLDLLT AEKGGLCIFLNEECFYLNQSG LVYDNIKKLDRAQKLANQAR QNLD SMLHGTGMKSDSDQKKS ENGVT LAPEDTLPFLKCYCSGH CPDDAINNTCITNGHCFAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVRRRTIECCRTNLCNQ YLQPTLPPVVIGPFDGSIRWL V LLISMAVCIIA\MISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDIQSQSSGSGSGLPL LVQRTIAKQIQMVRQVGKGRY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHEN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYSAAACGLCHLHTEIYGTQG KPAIAHRDLKSKNILIKKNGSCC IADLGLAVKFN\SDTNEVDVPL NTRVGTK\RYMAPEVLDESLNK NHFQPYIMADIYSFGLIIEWEMA RRCITGGIVEEYQLPYYNMVP PS DPSYEDMREVVVCVKRLRPVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFRPKNSWRLG LKYPSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLFSGATATA/APLPLEGGP TG\RDSEHMQEAA GIRKSSLLTF LAWWFEWTS\QASAGPLIGKEA REVARRQEGAPP\QASARRDRM PCRNFFWKTFSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL \LLDELVALVNKRDA LVRDLDA QEKQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSQVVKMSELPP\YG EMAAEKLKERSKASGEQNSKL VDLKLKKLLEVQPQVANSPPSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSSKST VRKTQLQSFSQYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPPLYKKYGNQQGVAAIPD VPAAWEAEPSPISPVLRKPN ASQSLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHFRP DLIDYKSLNPQDIKENNKKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTPDDHLSPTAS PYCRRTKSDTEPQKSQSSGRT SGSDDPGICSNTDSTQAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLECRSDPESP IKKTSLSPTSKLGYSYSRDLDLA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSQVVKMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFFVGGGDELTN LENDLDTPEQNSKLVDLKLKKL LEVQPQVANSPPSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSSKSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKA AKITELINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFDPDSEEPITETASPR\K TEDSFYNNSYNPFKE\VQTPQ YLNPFDEPEAFVTIKDSPQSTK RKNIRPVDMSKYLADSSKTEE EELDESNPFYEPKSTPPNNLVN PVQELETERRVKRKAPAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPISPVLGRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHRPEP GRGTGQKACSELPSEACSGIA IG*SLLCACSVRSRKRQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLLNPNINSPIPV QKPKDPYRLVQHLCLIQIVLPI HPMVNPYTLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQQITLAVLPQCFIDS PHYFSQAQISSSVTYLGIILMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIPDTTPDHHDCISLIH LTFTPFPHISFFPVPHLEHTWFID GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFFTTTTMLLLIALIK QGELCESFDGKSLDGRDERVVI CFDAAAGLHRAC SIRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNLFSSSHLMHIL SAPRLRLYSRFVESPTVTIVPG PDFNPASNIIPDTTPDPHDCISLI HLAFTFPYISFFPVPHPDHTWF IDGSSTRPNCHTPAKAGYAIVSS TSIEATALPPSTTSRQAELIALT QALTLAKGLRINIYTD/SHILHH HAYLWA/E/RGFLTMQGSSIINA SLIKTLLQAALLPKEAEVIHCKG HQAASDPITQGNAYADKVPSL AHAPTLTLAPVLQCPLREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTWKGWDPTNLLGGWFSNL GGFKTLVGTVIFIIGFLLFLPCVI PRIIKAIKTLVETTVSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHYTVSDPRTHPKGYTEYKV TAQFISKKDPEDVKEVVWKR YSD\FRK\LHGD\LAYTHRNLFR RLEEFPAFP\RAQ\VFGRF\EASV DSRER\RKGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRP\LEVS RDLHILPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPSNKTAPEK SVWTAPAQSPGSPQLQGQSR RNGWSWPPHPLQIVAWLLYLF FAVIGFGILVPLPHHWVPAGY AVSLGKRRAGPWNPFSLVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQHAHVIEDLHCNLCNVDVSA RSKHCSACNKCVCDFDHHCKW LNNCVGERNYRFLHSVASALL GVLLL/LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRPGR PARSPVQKRKGWPKGKRN PRDLAV\RVPTTGYMIFLNEQRS QLRATHPDLPFTEIMKMLAVQ WAQLSQDKKGRKYAGKALGV TPPPSALTPVALIEPKQLDIQSL PFQPILDRKIKDKRQLVPSYLG GMHTVTEGLAGRQVLLQQVQ GGAWESAFLTCPWAMAAAP GPTLTMLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRLQST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAPAALSSPGP PALGHAGHGRQLLLERSLTLFH LYELLYPRASPGLWPPRVWM PHSLTCGTFWVPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGGKKRKRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP G\EL\AKHAVSEGTK\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLFWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKDG KKRKRSRKESYSVYVYKVLKQ VH\PDGTGISSKAMGIMNSFVTTT FE\RIAGEASRLAHYNKRSTITS REIQTAVRLLLPGELAKHA\VSE GTNA\VTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMVKKIEISQYAKYICSFL WQNSKMKRRAVGIWCCG/SCM KTVKVSSSRNHIVWTYNTTSAV TVKSTIRRLKQLKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPGLLG SRSITGFSLSKQAKRTKKVGIV \GKYGNPLWGPSLR\KMKVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTV\AGGAWT \YNTTSAVTVKSAIRRLKEFERP SRTLLYSLRTSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTSIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAYVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALTT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPRLCFAVSPPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADEGFWDSCVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPPS\EANSIQSANATTKTSE TNHT\SRPRLEKRGTTGGIAQQFG QLTVG\NVTVIITDFK\EKTRSSS\ TSSSTVTS\SAGS\EQQNQRQLR GFRGATDKGSLPVPNPNGRPC QAVNDESFLKLAHGNCGLWN SGVWKFQNLPPAHACLHPWEN LSCGTSTSLVDCCQDNFLLCHG HSWPPRDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQAHAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLIGTWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPSG VRTNGKSKPWEPFVAEEFAHQ FHESVLQSTQKALQKHKSVA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQQEPPTARKG PPTQELDRDSEGEQEEDEEDGE DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPASDNIPKA DEIRTLVKDMWDTRIAKLRVS ADSF\VRQQAHAHAK\DNLTLM EIHTSG\TFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQAHAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF

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22910	53278	A	23043	2	642	RPRRLLRDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIYLLIGDGLGPFNPGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKEETF TPMPKPFTTLELT\KLLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSF\VRQQEAHAKL\DN LT\LMEIHTSG\TFLTQALNHMY KLRTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCELEPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDNKVVGELGDIY DDQGHILNIEADVFVFCPEPGQ KLMGIVNKVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLDSDAAGVFCI RGKLNITSLQFKRSEVSEEV TEN GTEEA AKKPKKKKKKKDPETY EVDSGTTKLADDADDTPEES ALQNTNNANGIWEEEPKKKKK KKKH\QEVSR TQDPCFSQGQLT SSGYQSDHKKKKKKRKHSEEA EFTPPLKCSPKRKGKSNFL
22912	53280	B	23045	82	323	

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22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGARNLI PMDPNGLSDPYVKLLKLPDRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSFGVSELLKA PVDGWYKLLNQEEGEYYNVPV ADADNCSLLQKFEACNYPLEL YERVRMGPSSSIPSPSPPTDPK RCFFGASPGRLHISDFSFLMVLG KGSFGKVMLAERRGSDELYAI KILKKDVIVQDDVDCTLVEKR VLALGGRPGGPRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAAFYAAEIAI GLFFLHNQGIHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSVDWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTYPK SLSREAVAICKGFLTKHPGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFSPRPRCGRS GENFDKFFTRAAPALTPPDRLV LASIDQADFQGFITYVNPDFVHP DARSPTSPVPVPVM
22914	53282	A	23047	1	1522	MLRAPRQATRDHHFAHIDIVQV TCFRYLRRSALAPAMPSPVR VDRGSFPPVAGGNHTRRRGGTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGRR RAHGQGRSGLTPEREGKVCLA LLLAAWAPRWCCPWAPSSG WTQHLQGQRQRRVRSRGPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPDWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKRQKHSSTEKATHTPER APKPQTRENNPKGRAQGSPAPR DHNPA SRHQKTSNDKRSTHDT HKTRKDSQTRKKTRNNEKQQ PDR/IGPQIIAYQP/YGKSVDWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTYPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPPDRLV/LASIDQADFQG FTYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASEDDFIKEKKKKSPKKR KLKEGGEKIKKKKDDTYDKE KKS KSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLLSLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPGSPFRDMDDGSDSLGV GLDQEFRQPSSLPEGLPAPLEKR VKELAQAARAAEGESRQKFFT QDINGILLDIEAQTRELSQVRS GVYAYLASFLPCSKDALLKRA RKLHLYEQGGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKEQRDRIC SDEEEDEEKGGRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNNKAQAWEDCVKGFLDAE VKPLWPRGWMQARTLFKESRR GHGHLTSILAKKKVMAFSKIKV KESSTKPKKKVSVPSGQIGGPIA LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVNLEDSDLDEDLIR NPASSVEAVSKELAALNSRAAG NSEFTLPAPSKAPAEKVGGVLC TEEKRNFAPSPSPAPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGIVMWEV MSYGERPYWDMNQDIPNTAL LDPASPEFSAVVSVGDWLQAIK MDRYKDNFTAAGYTTLEAVVH VNQEDLARIGITAITHQNKILSS VQAMRTQMQQMHGRMVPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYNNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIVAVNGV SKYNPNPDQSVSVTVTTNQAAP SSIALVQAKEVTRYSVLAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNTDIKGLNPLTS YVFHVRARTAAGYGDFSEPLE VTTNTGNKDHDPDVTSEAFIIQ LNPI TVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLLKWERKYTLYSSGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGML RGIGSGMKYLSMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAYTTRGGKIPRWT APEAIA YRKFTSA\SDVWSYGIV MWE\VMSYGERPYWDM SNQD VIK AIEEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRTGTESSRP NTALLDPSSPEFS AVVSVGDWL QAIKMDRYKDNFTAAGYTTL AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILS\SVQAMR TQMQQ\MHGRMV PRLSTVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLRQDLL SAVRSPTKRQEQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVM EPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLA FQDVGACIALVSVRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPR LAPRGLHCSA/ASVSSEQS LVPSPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPLR SLASLPRGLHCSAAHSSEQV\L VPSPPEPRQEGPPRLVPFEGPV LGQGAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPH/VDLFYLA LRKMRE\YGVERG/DLAVYNQL LNIFPKVFRPRNIQRIQVHYPR QQECGIAVLEQMHGVMMPNK ETEFLLIQIFGRKSYMLKLVRL KLWFRPFMNVNPFVPRDLPQD PVELAMFGLRHMEPDLSARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKSRSSKAAL\ ARHNPS\RPVF\VEGPFSLWLRN K\CVYY\HILRA\DLLPPEEGK WKRTPEEWELYY\RQLDLEY VRSG\WDNYEFDINEVEEGPVF AMCMAGAHDQ\ATM\VKWIQ GPAGDQPQTLAQNPWSFRLRR VQPGELPDILLQGWRSF/HPAR GPPRKTTTCKRQQQGPPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRLARAPSGPAVFSH LAMARLPLRGVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDCTEFTETECLPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQQKGTSETDTICTCEE GWHCTSEACESCVLHRSCSPGF GVKQIATGVSDTICEPCPVGFFS NVSSAFEKCHPWTSCETKDL\V VQQAGTNKTDVVCQPQDRLRA L\VVPIIFGILFAILL\VLVFIKKV AKKPTNKAPHPK\Q\EPQEINFP DDLPG/SSNTAAPVAGRIFTWG GQPV\TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNCVR*GRTT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTGVEAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGINSDS KVR*SCRQSSARQSGSYL*TSR SPQNRQQTGEITATVIAFGTRR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEV KALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRAFIWTASTFFFFKLTYSLTDF SSTQHDFNSPTTPVTFSDLAEL AKEQDKESENQLLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSITITESLMGISRMM AQQVQQSEEAMQSLVTSSRTIL DANEEFKSMSGTIQLGRKLITK YNR\RELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGPIIRQSECSIRTPL PFVRLRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DL\EVKAPIQDIRD\CSGPLSAL TELNPKVKEKFQQLRHRTGP/ VEQLAKEQDKESKQLLLQ\EV ENHKK\QMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKE\SLAQTSSITITES LMG/ISGRMMAQQVQQSEEAM QSLVTSSRTILDANEEFKSMSGT \IQLGRKLITKYNRRELTDKLLIF LALALFLATV\LYIVKKRLFPF VRFPKVPVLAPFNSLFSGICPWF PEAPRLPKAEAHPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGPGIGMPPLGTIEP PPSHHCALWEAAAAWSTLKSE PPRTRMPLLSAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGEAELAMAAAEEL\SGAP NVPNRERGGAGRPKTPFECNIC LETAREAVVSVCGHLYCWPC HQWLETR\PERQECPVCKAGIS REKVVPLYGRGSQEAIPRIPELK TPPPPPRGQR\PAPESRGGF\QPF GDTGGFHF\SFGVGAFPF\GFFT TVF\NAHEPFRRGTGVDLG\QG HPSLQLGKEFPLPGFSAIFFLFW

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22940	53308	A	23073	1	416	MQRRRRRRLLLLPPRRQTDRAL PPPPSPGSMPPPLPPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTSAPRASRRP RPSSCATRPPTSKPPPA\GHAPH PPPRDLGGGLDSGVQSDGVLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEDDYYGSAA EWGDEADGGQQEDDSGEDED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVIQLLS ENYTAVAQAVNLLAEWLIQT GVEPVQVQDTVEYHLKSLLIKH FDPRIADSMFTEEGETPAWLE\Q MIAHTTWRLDFYKLAEAHPC LMLNFTVKLISDAGYQGEITSV STACQQLEVFVRVLRSLATILD GGEENLEKNLPEFAKMVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFAQEKTVLTQE AIITVKGVSLSSYLEGLMASTIS SNASKTIVAAMSNLVPPVELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVRACYE RSNEYQLIDCAQYIFVLEMQVP CCEEAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22948	53316	A	23081	33	458	GITGSTDASGVTMKNPFVFS RRKNRKRHVNA PSHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHYKGQIGKVHV YRKKYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEKGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVYFPR LIVPFCG HIKGGMRPGKKVGVMGIVDLN PKSFAINLTCGDESDPPADGAIE LKAVFTDRQLLRNSCISGERGE EQVSNPLLSIHSTTMPFRVEILC EH\HCFR\VFVDGHLDFYHPH SNRYLAI
22952	53320	A	23085	1	215	QGFIPPLKEENFTLPPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGPGCNKRWPCLAKDPPTP QSSGVGQPFGGAEPAGAYIRTG PHLGPPPPPPDSSTNLHSPNPS DDGADTPLAQSDDEEERGDGG AEP\G\PAASSGPLAYRDPAGY SPTSRPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWDGCTLS
22954	53322	A	23087	1422	1670	NRYIDKTGWAWWLTPVIRHFR RPRWVDCLRLGVREQPGQHSKI KSLQKNAK\ISQAWWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLLDERSAALDGA KRDTLAL AAGALCREARAAQVFLKGGY EAFSASCPCLCSKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLQSLITTSSHC
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPQGR STLGALRPAMVMEVGTL\ DAG GLRAL\ LGERAAQLPACLD CRS FF\AFNAGHIAGSVNVRFS TIVR\ RRAKG\AIGALE\HIVPNAELR\ RLLAGAYHAVVLLDERSAG\LD GAKRDGTLALAAGRA/LCREA RAAQVFF/LSKGGYEA\FSASCP\ ELCSKQSTPMGLS\LSLSTV PD SAESGC\SSCSTPLYD\QGGPVE ILPFLYLGSAYHASRKD\MLDA LGHRLPWINVLSQIVPNHFEGH \YQKSI PVEDNHKADISFWFN\ EAIDFIDSIKNAGGRV FVHCQA GISRSAT\ICLAYLMRTNRVKLD EA\FEFVKQRRSIISP\NFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGT\STTTVFNF PV SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG V\VKRL V\KEKVL YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIP\D\CQRR\LEAAYLDLQRI LENEKDL/EKEAEEYKEAR\VL DSVKLESLKLFSYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAF TDHR ATEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEV RDQDVPVKRNFARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVLYSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKH NQGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGS LQTL PSTRLP GSSAAWLDPEEQAQSLQFSSQE APFLGEGGENHIKGVPHGT KES QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPWHSKPT WIMTL*FPLEKTGALS LTS DTS MFTVVVLT LGGLPLSEA*T/GG NYDSHFVDVKGTGTIIVAKPLD AEQKSNYNLTVEATDGT TILT
22967	53335	A	23100	1	1782	MAARIEVIHEL SIRLLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLLKDPHNGYHVV FALAGSPKDADDTSIYMFYQK VGDN SIDS WKNAGR VF KD SDK FDANDPILKDQTQEWSGSATFT SDGKIRLFYTDYSGKH YG KQSL TTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPQLSSLTYIDIRVIE ESIYPPAILPLEIFITASGEEYS GG VIGKIHATDQDVYDTLTYS LDP QMDNLFSVSSTGGKLI AHK KLD IGQYLLNVSVTDGKFTTVADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVGDYWRNFQRALR/NIL GVRRNDIQIVSLQSSEPHPLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEEIIIGVRILNVFQKLCAG LDCPWKFCDEKVSVD ESMST HSTARLSFVTPRRHRAARQQ/R GPPLHNPADT*TTARKYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLL FQHFGDS DGSQRLEQTPLQFTHLEYNVTV QENSAAKTYVGHPVKMGVYIT HPAWEVRYKIVSGDSENLFKAE EYILGDFCFLRIRTKGGNTAILN REVKDHYTLIVKALEKNTNVE ARTKVRVQVLDTNDLRPLFSPT SYSVSLPENTAIRTSIARVSATD ADIGTNGEFYYSFKDRDTDMFAI HPTSGVIVLTGRLDYLETKLYE MEILAADRGMKLYGSSGISMA KLT VHIEQAN ECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTREFSIYFLEKYTTFPGE NLEHGFWDSSSTSPVLLHPGIPA SRI/PVSSIFTKVPPKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVD FRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGPLHTPAMFLRRL GGWLPRPWGRRKPMRPDPYP EPRRDSSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRRA SEPSKEEPQVEQLGSKRMDSLK WDQPISSTQESGRLEAGGASPK LRWDHVDSSGGTRRPGVSPEGG LGVPGPGAPLEKPGRRKLLG WLRGEPGAPSRYLGGPEECLQI STNLTLLHLELLASALLALCSR LRAALDTLGLRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLA VSLREP N GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMELLGH LSIFKITGKQKQLTRTAPGPSGQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQQGTTWNRQVSSA PTKQQGTAR\PSGQPRSNQTTG NSLEPSSQLRSNQTGDSVQPN NREQPGTVRSAPLQPNNRGQR TKQQGTAR\PSGQPCSNQTTGN SLEPSSQLRSNQTGDSVQPNN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGPSG\SSAP TKQQGTALPSSQLRSNQTGNS SLEPSGQPRSNQTTGNSREPSSQ LCSNQTIGNSQDRQVSSAP/IQT TGNSQDRQVSPAPTKQQGTAG NRQVSST/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITATLTLEPPC TVFWNKTERNRTLVDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHLRPGHPELPIQEAWDRGE
22973	53341	A	23106	605	813	LFVFINFRENPAALLRWAYARIT NVYP\NFRPTPKNSLMGALCGF GPLIFIYYIIKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKVPSWNQKA\PSPTKPA TLIFDFPAVKTVRNKFVFFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGALFEQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRIIGLKSEGVPRID CVSKNEDIPNAVYPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCCTALQ PGQHSQKENLQNKPIPGREKY* VSIEFELIYFP/YYCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI \DGSANLKSQ\DDRDKFLGARV MFQNHSTVHMSRVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKKSLNQSL AE\WKLFIYNPTTGEFLGRTAAS WGLILLFYLVFYGFL\AALFSFT MWVMLQTLNDEVPKYRDQIPS PGLMVFPKP\VTALEYTFSRSDP TSYAGYIEDLKKFLKPYT\LEEQ KNLTV\CPDG\ALFEQKGPVYV ACQFP\ISLLQACSGMNDPDFG YSQGNPCILVKLNRIIG\LKPEG VPRIDLCFKRMKDIPNVAVYS\ HNGMIDLKYFPYYGKKTAMF/ VGIYQPIGILLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVH\IEP\RYRQFP\QLTQIPRCSQ SEF\FSGLMWFWIF\WRFWHP K\KVLGHFPV/YPDPSQWTD\EE L\GIPPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQGDRLTCAYPEKMRNRVLL ELNSADLDCDPILPPSLQTSYVF LGIG*ALIGAIFLHYRNNGLPTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPPCVLSGGK GRGNRPLREAPGGEGVSQVPA AAPLPRFHERKVFFFQTLPPAR ALRAQPPEPSEAPSQPSSGETR AAMPGGCSRGAAGDGRLRLA RLALVLLGWVSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAARTVKCV\NRNLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELAALNLSGS RLDEVRAFAHEHLPSLRQLDLS HNPLADLSPFAFGSNASVSAPS PLVELILNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLAQLPSLRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAELQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQKDR LTC AYPEKMRNRVLELNSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGIKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSSNSGCLEEILED RPRTLH
22980	53348	A	23114	288	877	ASRLSLPRTTSMRSSSSTSPSSSS SSSLCRFLNSRVTDAAFNFL VWYYCTLTIRESILINNGSRWG RAGPEGGEHGMGCQGPSGKGR EQGAGG*WWVFCSR\KGGW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLSFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSPFLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPLYDLP PNVRFTSMPASPHTYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIILISFTC RFLNLSRVTDAAFNLLVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFL\QY YYQSGCL\YRLRALG\ERHTM\D LTVEGFQSW\MMWRGLTFLLPFL FLW\YNSGQLFNALTFLKPGPR DPQLQGVGRCLCCGFPFL\LFLL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRRGFLVPVC FWEGDWEGAPSSVRVSGGLFY SPLGFMGRCGPGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPACIVCIYWALI LQSNEVTITEDKFNNLIKAAAV TVEPFWPSFFAKALASVNIGSLL CNAGVG/SMAPA ACTAQAGGP ATSTTAASASFRNHNPRIAPKFR GVLAHEQYLSERATVWWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHVV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHRGRPALARQRT PRRSP/SPGLSPPRGASPAS/SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSSS\YSDSRRQEIGK MRYVSVRDFKGGKVLIDIREYW MDLKRLPRKPRTGEAGSGSLSS PGADTPVEAAVTWRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGDSSALSMASLSTL TCSWGLRYSALSPTTSAQREEG SALYRHLSPPSLRFYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVWVLFQHPKTHGENLGDRW KEGSALVSSKGTPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLQCQRANDQE GVRLLPSEAMPKSKELVSSSSS GSDSDSEVDKCLKRKASLL/P ENPVKK\QKTGETS\RALSSF*TE PASSRDDNMFQIGKMRYVSV\ RDFKGSKA*FDIREYWMDPEGE MKPERKGISLNP\QQWEPSLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTVAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLLLGSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQQSKDYY AYRLGHIFNSWKEQVESKTVF SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFFTISTRPW MTQFSLNKTCLGEGFH
22996	53364	A	23130	232	402	LFKAWECCFLIFLQVVITRLKLD KDRKKILERKAKSRQVGKEKG KYKEET\NEKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQ\K KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLEVMDKPNPEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTTRRRYYRHSLLHLQ GAIEDWNNESSMPCCVLQLGDI IDGYNAQYNASKKSLELVW\Q FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDYYAYHFVPFPKFWFI LLDAYDLS/ALGAWDQSSPKYG GSVWKILEGSHNP\NTGNWNSS SRDFSEA/RSLFQFNGRVSAQEQ LNWLNEVLTFSDTNQEKVVIVS HLP\LYPGPPFDNVCLAWNYRD ALAVIWSHECV\GVSLLGHTHD GGYSEDPFVYHGV\NLEGVIET APDSQRFGTVHVYPDKMMLKG RGRVPDRIYELQGKEEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRRSLAFLLLAERGAAAA VLWSGCRRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQQL GFGGVYIQTVDVGGSGHVRLDT SVIFEALA\TGCTSTTAY\IRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRG
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLAQGVINY RMLLSWRRWLVAHPVF*SFSCE VGPVGQS*RTMLHCRHSDPV AKRLSCRRGDFASVVVLCPPPQ RLRTLKHFLFFGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGPAALAYLGLKTLCTSQQAF AGQMKSDFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPLPVCPPVCNCPA CPCHEHCGEAP*GVAIAKRGAL RVHHPHSCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAPGHGPGQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNLS CSFDVVSPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLVVLLAGSSGYLVG FKFLESHGSDSGSANSFHC LISQ NEFKTLPLDLTRAPRYSPVVEA GSDMVFRWTINDKQSLTFQNV VFNVYQSAAVFKLSLSADSAP RPRWRLQSPRVGR LSPDPGFFG SPGPCQPR LQAFLI
23017	53385	A	23151	648	1387	ASTQSL LAWCPA WLSIPSTWPS SFSSGCPG/CKAQPVEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LTVLGRSGEEEGCASIPSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHDADAGAPLVYAL LLQRCRQGHCEEFCVYKGSLSG YGAVLPPGFRPQFEVGLAVVV QDQLGA AVVALNRSLAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTE SL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCFTRIQR TCCVLLICLFLGANAVWYGAV GDSAYSTGHVSRLSPLSVDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTPAGQQVLDI DSCLDSSVLDSSFLTFSGLHAEV INTLADHQHRTDFGGSPSVLII TVSLRSYKFAISLCTTYLWVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSSHFRWSALQ VSVGLYTS LCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFPEPTA DVNYIVMLTCAVCLVTYMM AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRGSGT TAHV GIMLYGVDSRSGHRHLD GDRAFHRNSLDIFRIATPH\SLG SVWKIRV\WHDNKGLSLALGFL Q\HVIVRDLQTA\QSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGPCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSLLRDVSH NLLRALDVGLLANLSALAELDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAE EQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSGCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRW D FGDGS AEVDAAGPAAS
23021	53389	A	23155	3887	14184	HVLC A WVTYMMVAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRGSGTTAHVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTKGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVRPRSVFPLR HAALLRFRRLGAE LQRGFDDK HIWLSIWDPRPSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRLNPLSVY
23022	53390	A	23156	1	442	GGASGMGGITASTVNQ\SLLS P LVLEVD P\NIQAVRTQEKEQIK\ TLNNKFASFIDKVRFLEQQNKM LETKWSLLQQKTARSNMDN MFESYINNLRRLQLETLGQEK LK LEAEFTTWGPPLMPPTATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRISAWFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSGPGRISSSSF SRVGSSNFRGGLG\GGYGGASG \MGGITAVTVNQ/SRALLSPLVL EVDPNIAVVRTQEKEQIKTLNN KFAS\FIDEVGFLEQQNKMLGT KWSLLDQQKTA\RSNM\DNMF\ ESYINNLRRLQETLAQEKLKLE AELGNMQGLVEDFKNNYED\EI NKSTETENEFLVIKKDVDEAYI NELYEEEIRELQSQISDTSVVLSE DNSRSLDTSIIAEVKTEISEMN RNISWLQAETEGKGGRISELEA GIADAEQRRELVIKDANAKLSE LEAALQQTCKLLE\MENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSSRSGAGSSSFRTSST RAMVVKKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDL YMVYMFYDSTHGKFHGTVK AENGLVINGNPITIFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGVKVIP ELNGKLTGMAFHVPTANVSVA DLTCRLEKPA/KYDDIKK\NTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAAIFFCVASRA HIAETPLGKVKVGNGFGRIGR LVTRAAFNSGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT\ VKAENGKLVINGNPITIFQE\RD PSKIKWG\DAGAEYRRGSPLGV FNQPWRKAGGSICKGGSQKGSS ISAPSAECPFCFVMGCEPMKKY DKQAFKI\ISN\ASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTVD\GPSRGKLWP LMGRGAL\QNIIPASTG\AAKAV GKVIPELNGKLTGMAFRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGPLKGILGYTEHQV VSSDFNSDTHSSTFDAGA\GIAL\ NDHFVKLISWY\DNEFGYSNRV \DLMAHMGFQGS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRADFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCHEKGRKGHQAPTGSTPDPG TLSACRSCQQGQMPASAGVP ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSPNSASGSAICP ASSVMPETVSVSRVMPNVTKP A/MTAKQTRIRNQMVAITIES DAWNSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPAPPDV PGEPSAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTRLTSVCKRRCEVHQ LEDRPFVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQVGSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAGRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPVLE/VPPSAFTPPP KVDSA VV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIRNS LGNLFSVEVLTGMGIDPAMRA ENISVAQYCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSERQGS DWRFFSVYVVKKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVL\AINGMDVNG RYTAD\GKKVLEYLG\NP\ANYP V\SYLFAQPR\TSNDKMLAL MFHSLFAIGSQACLP EQGKPQG IENAWKTDTFKLH\CYQTLT\GI KFVVLADPRQAGIDSLLRKIYEI YSDFALKNPFYSEMPIRCELF QNLKLALEVAEKAGTFGPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRSERRRRQMADFDTYDD RAYSSFGGGRGSRGS\AGGHGS RSQKELPTEPPYTAYVGNLPF\N TVQGDIDAIFKDLIRS\VR\LR DKVTGKFK\GFCYVEFDE\DSL K\EALTYD\GALLGDRSLRVDF AKGRKTKIRVAFGF\RKGGPDD R\GFRDDF\LGGRGSRPGD\RR TGPPMGSR\FRD\GPPLRG\SNM DFREPTTEERAQRPRIQLKPRT VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTFVPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVCQRELFYYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSSPTAGSAMSSEPP PPPQPPTHQA\GVLLDTPRSRE RSPSP\LRGNVVP\SP\PTRRTRT FS\ATVR\ASQGPVYKGV\CKCF CRSKG/HIGFNYPPAGWAGPDIF PGTSLDVGRGSY\VPSGKGDEV TLLKCAPIPTPKNE\KLAGPWV VHHSPWHPGT\KHET\WSG\HVI SFLGGLVESTPLSLCFVGDFAG RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCGVF PAISTAYGPLQQPLHHLKSIKSH LKRRGAHW\WLSGGSNPIPGSGS RVGISSQLAQTHGLNPQNPSSS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFPSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAK KKKLGEMWNSLNDSEKQPYFT KAAKLKEYEKDVADYKSKG KFDGAKGPAKVARKKVEEED QEEEEEEEEEEEEDE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFPILFMGSGY RKGPTFQEPKPLPGAAARGPGC DPTQPPRHSAPRDHGPPSPRCS PRPARPRASPAWLPPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAWPVLLGLLLA LLVPGGGAAKTGAELVTCGSV LKLLNTHHRVRLHS\HDIITYGS GSGQQ\SVTGVEASDDANSYW RIRGGSEGGCPRGSPVRCGQAV RLTHVLTGKNLHTHHFPSPLSN NQEV\SAFGE\EGEGDDPGTLW TVRCSGTA/HWEREA\VRFH VGTF\VF\SVTGEQYGSPIRGQH EVHGMPQCQ\QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVSGSSGL AAARLLSR\SFLLPHNGIRHCAY TA/SLRQHLYVDKNTKIICQGFT GKQG/TPFHSQQALEYGTKLVG GTTPGKGGQTHLGLPVFNTVK EAKEQTGATG\SVIYVPPFAAA AINEAIE\AEIPLVVC\YPRGIPQP GLGHSSSHKTCGPGKDKAYWG PNCPGV\INPGECKIGIMPG/HIF HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGGDP\FN GTD\FDID\CLEILFERFLPQEGII I\G\EIGGNA\EENAAEILEPLYS GSKF/ARPVVS\FIAGLTAPPGRRN GVMPGAHISGREKVGAKRERSS ALQSAGVVV\SMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWKSRHIDQEKR REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKMYR TEIRMARMATKAGNFYVPAEP KLAFVIRIRGINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA\WRYPNLKSVELI YKCGYGKINKK*IALTDNALTA RSLGKYGIICREDLIHEIYTVGK CFKEANNFLWPF/K/LSSPRGGM KKKTTHFVEGGDAGKREVQIN RLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRT\EIRMA\RMARK\AGN FYVVPARTQIWR\FVIR\IRGINGS EPQRFKVLQLLRPVKIFNG/T PFVKLQQGFRFNMLRDCRSHIL AWGYPNLKSVELIYKRGYG QNQFDLHPTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVRPRVRDSKMASVGEVSGP QYPVKDKKLL\EVQTGGSFPSW \ILMRGPSSPSGIFG\AFQRGLLR GTYNKY\NVKKGSDLGGFTMV L\ACYVLFSSYSFSYKHLKH\ER\ LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEWGK* LNGGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDAQQCMLILD\TAG TEQFTAMRDLYMKNQGQFALV YSITAQSTFN\DLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQGQNLARQWNNCAFL ESSAKSKIYVNEIFYDLVRQINR KTP\VPG\KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLGQCRREMVGWSLH TESPLG\QWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVM\AVTVVTPQTG IIAIPDPHHEWGSTGYPRLPA

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRRMMRVSNRSLAIFIFF SLSSSCLYFIYVAPGIANTYLFM VQARGIMLRENVKTIGHMIRLY TNKNSTLNGTDYPEGNNSDYD VQTTTYLPENFTYSPYLPCEKL PYMRGFLNVNVSEVSFDEIHQL FSKDLDIEPGGHWPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLEFAFYVVEQTGTQ PFNRAMLFNVGFKAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKYMYILPY KEFFGGVSGLTVEQFRKINGFP NAFWG\WGGEDDDLWNRV\H YAGY\NV\TRPEGDLGKYKSIPH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPFQLGRGRMVPAAK GGEKKTGRAINEVVTREYTINI HKRIHGVGFKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDEDSPNKLYTLVTYVTVTTF KNLQTVNVNEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSVLVA RLAPLF\PTTMSDKPDMAEIEKF DKSKLKTETQEKNPSPKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPSPRSSTSPSIINE DVIINGHSHEDDNPA\EYMW GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEEGKEG ALNWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSFSWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLVDVAQFPHCEGSIRR LNCKSSLGHCVTLYAIAQSF
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFSKVPPHAAAFRAQPPAL WGLAKGSGRGAGEGGERPDRR R/PAARTGTPAWRPAGRRRLPP RSPPPAPVPVRPALPHPVRPGKE TGKTRRRRHYSRPLRGAAA AAAAAAVAQTASPSWAEGGRS GAGGSAESPAFSSPALPCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWPWPGPH SGVLFPLLLHCTGSLSQAVLTQ PSSLSASPG\ASVKLTCTLRSDIN VGSPFIYWYQQKPGSPQFLLR YKSDSDNQQSGVPSRFGSGKD ASANAGILLISGLQSEVRDDYY CQAWDSSTAHS DTGRCGIVGRP PVRQCWPLLLGLAMVAHGLL RPMVAPQSGDPDPGASVGSSRS SLRSLWGRLLLQSPQRADPRC WPRGFWSEPQSLCYVFGTGTK VTVLGQPKANPTVTLFPPSSEEL QANKATLVCLISDFYPGAVTVA WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSQCVVFGGGTKLTVLGQP KAAPSVTLFPPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTPSKQSNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPVSAPVSGLKS CWSGTGDRSALGQMPGPCHGI PDPMQQASDSGQPKAAPLGSL CSKPSSEELSGQQGPHWCVS
23077	53445	A	23211	1	959	VFLLLYLVAMPDPAKSAPAPK KGSKKA VTKAQKKGKKRKR SRKESYSVYVYKVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCLPGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPPINREEDK RYTTVMGPCLRQA ALEGELLA CPVMEDQQANWVHEPITFNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTQPKETPSA PYNDISDLTNQDSWFIFPPIWN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAAKALPV FLLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQLQATAQEEGIF EYTDPKLAISAVWTFRDLGVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKCLKHP GPRGRLQYSPPTAGQGRLENG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLKLLFLNVQLHKGQ MKMVQKAAQQVGQVGTSLWL SPEQGLPLVLLSTHKTLLDGILL PFMLLSQGLGVLVAVWDSRAC SPALRALLRKLGGFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVLRSLWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPITGPLLA LKEEDQLLVRRLSCHVLSASVG SSAVMSTAIMATLLLKFHKQG VFLSQLLGEFSWLTEEILVRGFD VGFSGQLRSLQLHSLSLRAHV ALLRIRQGDLLVVPQPGPLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILL SQNELYRQILLMHLLPQDLLL LKPCQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRSL RKLLWKPSGDFTDSDSDDFGE ADGRYFRLSQSHCPDFFLFLC
23084	53452	A	23218	169	955	ASSQLPCSMAQCCATWAPLKM RWLCSTAWSTSSLPPSWSSL QASQPSCCHATSLAPPCAGQCL ARAWPVLSFLCTCALGLLASIA MTFATQKGALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRP\WWGKKQPTHMMRE NPELVEG\RDLLSCT\SSE\PLTL CRDDVLPRP\DGQLRTLQATLL CDPGPGFLGAGLRGLKWTLLGG PSGAFQPSSPTTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLADSSLSWKMFVLG LTGGIASGKSSVIQVFQQLGCA VIDVDVTARHVVPQGYPAHRR VEVFGTEVLLENGDINRKVLGD LIFNQPDRESLNAITHPEIRKE MMKETFKYFLRGYRYVILDIPL LFETKLLKYMKHTVVVYCDR DTQLARLMRRNSLNRKDAEAR INAQLSLTDKARMARHVLDNS GEWSVTKRQVILLHTELESL YLPLRFGVLTGLAAIASLLYLLT HYLLPYAYTASAIPPSGAASRG PGARCSAIRKRAPRPTSAVSPP GAPRSPARGLRADRAAGTRNL NATLPPPGPPAPPPSPSSITL HVFHQLQPDITRGREGTDFQWE KFPGRVLVADSRRALRCLAPAP TWLV
23087	53455	A	23221	2	1231	TPLFLRKGTADGSARTTVIHLG FTKGKQRCVETQAAAVAGDVG RTAAGGRVGKESGVISDDRP LPVGQSQPEGGEQEATDTVSVH ATTSQAWPGGADSKELSSKAE ERETGKDQQTELPLCLPLRDFP DSAPVMSSDSGHATESLHLASS DSKPPMPTPNEGPGSTVGHAGP PRTVKADLCTEPQLALRGLQVS LPRLHLVGVIYAEHQASGLEGC GHAGSCSPDGSPRAPGATLCLS KPLSFRTKRCLPCWLPASAPVGI PGAPVHIPGAPVCIPGAPACISN APVHIPGAPVGIPGAPVCIPGAA VCVPNTPMCIPSAPMCIPNTPVC IPNTPVCIPNTPVCIPGA AVCILG A/PRAHPWCSSCVHPGAPECYL GCGLTQADRLEPAVLDAQLQE PLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAICMCLGLCKKIHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSKIKADPEKLKKLQESLLE EDSEEEGDLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGAVKTCMC KQGLLVDLGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYNVTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLLHLYEQRFAEL MRLNHNQVERERVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDVTVTNGPFIDL NYMVYMFHYDPTHGKFHDVP MFVMGMNKHENKLTVISNAS CTTNCLDPLAKVIHDNFGIREG LMTTVHSIIATQKTVDGPSRKL WHD SHGAFQNTIPASTGAAK/I KKVVRQA/SQGPKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	
23093	53461	A	23227	1078	2221	QQTLPAAALPCFPPTHPPEVL PTAMNTTSSAAPSLGVEFISLL AIILLSVALAVGLPGNSFVWWSI LKRMQKRSVTALMVLNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLAGIWWLSFLLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHRAFLIFEAVTGFLLPF LAVVASYSDIGRRLQARRFRRS RRTGRLVVLHILTFAAFWLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFLSSSVNP VL\YACAGGG\LLRSAGVGFFA KLLEG\TGSEASSTP\RGGS LGQ TV\KSGPAALEPGPSESLTASSP LKL\NELN
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREREHVQGN SPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECISIHVGQAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTyrQLFH PEQLITGKEDAASNYARGHYTI GKEIVDLVLDRIKRLFSGGTGS GFASLLMERLSVDYSKSKLEF AIYPAQVSTAVVEPYNSILTT HTTLEHSDCAFMVDNEAIYDIC RRNLDIERPTYTNLNLIGQIVS SITASLRFDGALNVDLTFQTN LVYPRIHFPLATYAPVISA EKA YHEQLSVAEITNACFEPANQMV KCDPRHGKYMCCMLYRGDV VPKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDM EAFQQAAD AQNNTGLEGPHPLGRSLSFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPEATGQ TSGQRPEALQAFWPAFGSSPVT GSSPVTETTKGRWSSSRQVL WDRIPLAKSRPAISNRQSQRTNI PWWESCPILNLEREQPPRFAQP GTYASRWKALEEMEKQREQ VDRNIREAKEKLEAEME AARH EHQLMLMRQDPGLALVSCMQ QQQSMRSRSPKKVFKHLYELNL TKLQSLGSRSLRWKDSPFWGE EAGGKRPLVSLALHRSPSLLL LFVPHKPSKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAAE E DGGPEGPNRERGGAGATKLL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGESLLTFSL HFLRLKTPQICRLPV*LFLPP*GF QPF GDTGGFHF SFGVGAFPF G FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFVGACVCVFGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVLSVLANLYFWTISH QV\LE\TRPE\REQP\CKAGISR EKVVP\LYGRGSQEAPRIPRLKT PPPPRGQR\PAPE\SRGGF\QPF DTGGFHF\ SFGVGAFPF GFTTV F\NAHEPFRRGTGVDLG\QGH A\SSW\QD\SLLLFLAIFFF\WLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRAELLSKDKRVRTDGN KCSPSAIGKRKERGTNDWIEGD NNQESQGLNCSDTLNRDLGPN TRGFLYAGLSGLDPDPSLPTPD MSSEVLEDNLDTLISLYSGKDSD SVKLLLEYADSESQASLQGRSR CWQHPPAPLSYPPAASGSQSL LQGKFPSAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVLLGLL GIPSARPERPGTGSEAGPTRLPG AAVARRRRPARPVGRGLGDPAP TAAQTSGPASLPPPPPPRSYGDP HQNGYPDPDPAPSASPDLPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRAGRPPPGGAGGTA NPSTGANGGAATARRTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHPGG PLTDPPNAPVLALPPAIPGLSLS MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLCRQLHAR VDKVEERYDIEAK\VTKNITEI ADLTQKIFDLRGKFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHPGGPLTD PPNAPVLALPPAIPGLSLIMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKSKISASRKLQLK'TLLLQ IAKQELEREAEERRGEKGRALS TRCQPLELAGLGFELQDLCRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKSKSI SASRKLQLK'TLLLQIAKQELE REAEERRGREGARSLAPRC\QP LELAG\LGADLPGLCCRQFHA RV\DKVDEERYDIEAKVSKNITE IANLTQKIFDLRSKFKRPTLARR VRISADAMMQALLGARAKESL DLRAHLKQVKKEDPEKENREV GDWRKNIDALSGMEGRMKKW RELSLPAYCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFSTIRLLLEHQ PKQTMYPILPK/PPLWPEEPKTE APKQTPRAPPKPKTSRPRIPQT QPEETDQSTQEPFTTKIPRTTEL AKTTQGLEMLSCLIHNPCKMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVKKPPLRKGVYLSSK SLSRWFFKVQAN*RSQPQKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNIPCSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKKTTLKFIWEPKKEPAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTTPRARERPAGWPAPRM EVYIPSFYEESDLERGYTVFKI EVLNMGGRKHFEKRYSEFHAL HKKLKKCIKTPEIPSKHVRNWV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRLPLSLPK AESCFSFDETESEESSKLSHQPV LLFLRDPYVLPAAADFNPVVE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQILHWQ HYSRKRMLQQA\AKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGFRNFARVSGLLLCQAGGVV VSSFVMAAAVAMETDDAGNR LRFQLELEFVQCYANHNTLIFLP QR\GYF\KDKAFVNYLKYLLYW \KDPEYAKYLYKYPQCLHMLGA APNMEHFRKEAGWNAQCAKF IGWNRQVSTLGKHYSRKRMR LQQALAEQQQQNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQH HQGI APLHLDAPGPSWTQSRSPRNRA NQNHTCSEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	HGQRFLHGPV/H/HHSYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVETQDL ASPVLRSVSICKVEEAFRQAH VIVVLDDSTNKEVFTLEDCLRS RVPLCRLYGYLEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIIWGNISGNNYV DLRKTRVYRYESAIWGPHYSR PVLNLI FDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPPEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCYSFYVALDCGGVSRL VIFVSWRNPQVAPSAHQNRPS RNPVSRPPNTQRVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSAAPIPDSDYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRI HTTSDLPLVLRKYASGCCRLIW YCCAWIERALSQVGGGVFGD PLSEGQAECDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLISLGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSFRLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVAVSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR TQSRARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLACFWPG SDFWPRSRRKTYGTAPQSCYSF YVALDCGGVSRLVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQRVARRKHYALADGYTERR WTDAPCRAESSFPNCPL*RQY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRSRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRTQSRARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRKT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQRVARRKHYA PADGYTERRWTIAPCRAESSFP PNCPSAIPDSYDK
23133	53501	A	23267	1	3140	MVYKMRYRSQHPYSIKEKQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDIFGIPAGF VGTMFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLFGL PFGIVCVLAYSTPDLSMNGKMI YAAITYTLTLLYT VVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMMPVNLIGG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTLIPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPFSASASHEQPEWSD KGAQPQPRTQSRARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSR VLLACFWPGSDFWPRSRRKTYG TAPQSCYSFYVALDCGGVSRLV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQRVARRKHYALA DGYTERRWTNAPCRAESSFPN CPFAAIPDSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQQKKLSTDDKGAQPQPR TQSRARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLACFWP GSDFWPRSRRKTYGTAPQSCYS FYVALDCGGVSRSYLYPGET PRVAPSAHQNRPSRKPG\TRPP NTQRVARRKHYALADGYTER\ SATNAPCRAESSFPPELPVPQVP NTGFIRQVTFRDCFVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQPQRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLACFWPGSDF WPRSRRKTYGTAPQSCSYFYV ALDCGGVSRLVIFVSWRNPQV AP TSAHQNRPSRNPVSRPPNTQ RVARRKHYALADGYTERRWT NAPCRA/VEFPFNPWPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLPIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTRQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIA TEAEWSYVCQST NPVDVYPLTAVPACCIISASDVP
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKS RKGMAQSQGWVKRYIKAFCK GFFVAVPVA VTFLDRVACVAR VEGASMQPSLNP GGSQSSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKR VIALEGDIVRFP *DFCMPMPHISC GPQSAGR NW
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSPRKS GRKGMAQSQGW VKRYIKAFCKGFFVAVPVA VT LDRVACVARVEGASMQPSLNP GGEPV/ASDVLLNHWKVTEF/ SEVHRGDIVFIGAPKNPEQKIIK RVICSLKGDIFQNHRTQKP DVK VPRGSHLGLGDHSDTVFDS NSFGPVS LGLLHAHA THILWPP ERWQKLESVLP PERLP GTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSP PRLALWDRASDPP APPEDPETAPAMEEDQELERKI SGLKT\SMVEG\ERKTTLELVQ AAG\TDRP\CVTFVLHEEDHTLG \NFLRY\MIMKNP\EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGYP FPAVEPISREALNELMNVC\QP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNVIVTS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTW LQVAKRAGLGGGQSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNGQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKKR KYIYVLVIAITMVMRWFQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTSEKSNEAADHFKHVPQAKG NNVIVTSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTIIMGDFN TPLSTLDRSMRQKVNKNTQEL NSALHQADLIDIYRTLHPKSTEC TFFSAPHHMYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNLLLND YWVHNEMKAEIKMFFETNENK DTTYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDTLTSOLKE LEKQEQTHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKKREKNQID AIKNDKGDITTDPTETQTTIREY YKHL YANKLENLEEMDKFLDT YTL PRLNQEEVESLNR PITGSGI VAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKL FQSIEEEGI LPNSFYEASIIIPKLGRDI AKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLELVRAIRQEKEIKCIQL GKEEVKLSL FADDMIVYVENPI VSAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYKPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNFI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVL FKLWRGQANKVG DNSIDSWKNAGR VF KDSDKFD ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKH YGKQSLTT AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRKNIS*RSAYVR*RQL YIRRQPYAERPSHVEDKGHKY LVFEANTGTENGYQGEESLFNK A Y YGGGTNFFRKESQKLQQSA KKRDAELANGALGIIELNNDYT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQR*MCQNLMT\QNQPSGR SQNDF*RRRKNISERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIENND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF\TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPGQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLS\DLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEY\TFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSPSRRQE ITKMRAELKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEY\TFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKKRQERSKIDTLTSQ LELEKQEQT\HSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPS\HVEDKGGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSFSNM DLADTVMF*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQT\HSKASRRQE ITKIRAE\KEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQDRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKEIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRKNGPVLQPLH LTEKSVYSTLTIPTKAINLYSK PTREQKTDTKAKNLYLTKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKN GKWYLFDTDSRGSKMTIDGINSN DINMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTLTNSHFA VPQAKGNVVTSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQGQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGKLE NLTLDIIQENFPNLARQANVQIQ EIQRTTPQRYSSRRATPRHIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTN\HSKASRRQEITK IRAELEIETQKTL*KINESRSW FFERINKIDRLARLIKKKREKN QIDAIKNDKGDITTDPTIEQTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKPRDIT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIHSIDAEKAFDKIQPFML KTLNKL\GIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWNI PCSWVGRINIVKMAILPKMCL* RRWTPCLLLTAAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRNLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRQPYAERPSHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHIYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKA VCRGKFIAL NAHKRK\QER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKA V RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQK\INES RSWFFERINKIDRPLARLIKKKR EKNQIDAINDKGDITDPTIEIQ TTIREYYKHLIYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEDQRYKEELVPFLKLFQ SIEKEGILPNSFYEASILIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNHKSINVIQHINRA KDKNHMIISIDAEKAFDKIQPPF MLKTL SKLGIDGYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQDLIDIYRTLHP KSTEYTFFSAPHHTYISKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETKENKIDTTYQNLWD AFKAVCRGKFIALNAHKRKQE RSKIDTLTSQLKELEKQEQTHS KASRRQEITKIRAELEIETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDAIKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRIKKLTEN HTTTWKLNNLLNDYWVDNE MKAIEKMFFEINEKK\DTTSQNL WDTFKA VCRGKLI ALNAHKRK QERSKIDTLTSQKK\LEKQEQR NSKASRKQEITKIRAELEKETQ KKT LQKINESRSWFF EKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNR PITGSEIAIINSL PTKKSPGPDGFTAKFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKTVH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFAKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDN SIDS WKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KH YGKQSLTTAQVNVSKSDDT L KINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEITNCLSDHSAI KLELRIKKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQT HSKASRRQEIT KIRAELEKETQKTL\QKINE\SR SWFF\ERINK
23198	53566	A	23332	339	701	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFI AFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFL*G AIRFSDLVNEQIQHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKRLWQ KQGVCEVEIQARESARDGTD REDAESPHAETVPRGTRTEILT LWASDRPASACGVTPKGST THPGGMDRVCVDTAVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTISNPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRRSNYSELRED
23201	53569	A	23335	1	2374	MVSISDLVICPPRHPKVLGLQGP PGLDSISDPSAGAGFLDWGEIG MPGPGRAGHQALCKCDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTIIPPGPTPPQERTC QGDYHSGGTWTHSPLETTTRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPKAPPFKAE GPSSTPSSAAGPRPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPPRGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLLAAACNCE VARGRLESPGPERLLHGYGGRE EEGGWGRAAGGLDRVEGFIS KAHHYLLIDTQGVPTYVLVTRS HRGSQGPVGLQARKVLQLPV LKGLRVHVHLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRRRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGIIFQQSQRSAGLT TTSRFLACQRPLRLCAWWASRS PRCTLRRPVGLRPGVHPRPRLV YRDLKPENVMASGQPRDRPQP WFAWPPRPTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRPDLRGCTEPQPALR MLVLASPCPQPLAFSSVETMEG PPRRTCRSPEPGPSSSIGSPQASS PPRPNHYLLIDTQGVPIYTVAW LDEESQREPGASGAPGQKKCYS CPVCSRVEYMSYLQRHFRFSH SEVKPFE\CDICGK\AFKRSQHL/ SARHHSIHLGGWVGGPACRFC PRRFARDAGELAQHSRVHSGER PVSVSTLPSPLYGAEHTAETHA VEASHEAGLPGAPGTHRTLQG ALDSCPDTW
23203	53571	A	23337	1	1144	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYIRKHFANPLSALFLQGGI ELFAAIAEIHITVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFRVGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR\ LCRRSRAAPVGRCSVPECPPFG HLVDVSGTGTLSQSYQYEVCLT GGSGANEFKFLKPVIPNLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRAENITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTYSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFRVGATDRG SPALSREALVRVLVLDANDNL\ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQAEAD LLTVYLVVALASVSSLFLLSVL LFVAVRLC\RRSRAASVGRCSM PEGPPGRLVD\VSGTGTLFQSY QYEVCLTGGSETGEFKFLKPIPT HLPPHRGGKEIEENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLILLLLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFPERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPNSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVRLRYQPDENFSKNE KPKEEVVEMNSVPAESPACVP EASSTPASLWSPVSTIPTRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLLVLI VGFTFTVWRQPQSNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLMQMTTETWA QCGVWMLIALECPNLKLLKPP WLHMLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVVRV\RFFSLSPPLR PWPLCPAARRTMGSILSRRIAG VEDIDIQANSAYRYPPKSGNYF ASHFFMGGEKFDTPHPEGHLFG ENMDLNFLGSRPSQFPYVTPAP HEPVKTLRSLVNIRKDSLRLVR YKDDADSPTEDGDKPRVLYSL EFTFDADARVAITIYCQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIYGIENKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKKPGALSP VSFSPVLAQSLEHDEHSCPFKK SKPHPASLASKKPKRETNSDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAIDHILDSSRQKGRPQSKAP DSTLRSPSPPIHEEDEEKLSEDV DAPPPLGGAEALALRESSSPESFI TEEVDESSPQQGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLFP WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGGSSR GSSRGHPGPPPGGSSRGHPGPPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSSRGHPG PPGALPVVTRVLLPGLFPWSP GSSSR/RTLPPVTRLLSGTLFPV VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRS KPGLTRAPARCGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRARAISSPRAS/L RMSQRELGLWDPNNFEEPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGLDVSKCEIARFYKLH ERKCEPIIMTVPRKSDLFQDDL YPDTPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHRELRV TKRNILDVRPPSGPRRSQSASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQHTLETLL EEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTEIESISQGVGQIQLKGDI LPNPCHTPKKNSIHELLLERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSSIADL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGKSDEAPPEH SFVLKEPEMSKGGKYSYSGSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNGLKVSQKS EGSQPSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMALLGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKCQRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAEEYFNPNFELG NRDMGRPMELTTKTQKFKAKL WLCEEHPLSLCEQVAPIIDLMA VSNALFAKLRFITLQIPFHILN ARITFGNLNGCDEPVPSVRGSPS SETPSPGSDSSSVSSSSSTSEAPR ENACPSALPGVASCRGCEISPAL FEAPRGYSMMGGQREAA TRDD DDDLLQFAIQSSLLEAGSEYDQ VTIWEALTNSKPGTHPMSYE/R SPTGQGQVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRTLFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRLSKVFSAMLAIHSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHPECPKLYKEYFRM ELMHAGKTGGRRRKNLKKPV WMWRILIILKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLLNPKSEMTPEE\ REEEFNTGPLSVLTQSVKNNT QVLINCRNNKLLGRVKAFDR HCNMVLE\NVKEMLTEG/DRYI SKMFL\AGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDYRSLFNKP\KS EMTP\EELQKREEVEEFNT\GPTP LCLTQSVKNNTQSAQSTC\RNN KKLPGAA*RPFDRASPPCSPPGT CNMVL\ENVK\EMWT*GTQEV GKGKEGSSK\VNKDRLTSSKM FPGGGGFSSFVPCGNPFHSAG QIRGPPV\FDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVWLDPNET\NEIA NANFRSADPGRLIKDGLIIRKPV TVHSRARLPEKTPLARCKGHG TLGIGKRKGTANA\RMPKEGHH GMRRMRILAPACSRRYRESKKI D\RHMYHSLYLKVKG\NVFKNK ADFSWEHIIHKAEGRARPRKEAS WLDQAEA\RRSKDQKGHGKRR EERLPGQRKEEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLL LEFWEVSGQLHYSVSEEAKH GTFVGRIAQDLGLELAELVQRL FRVASKTHGDLLEVNLQNGILF VNSRIDREELCGQSAECISILEV IVDRPLQVFHVNVVKDINDNP PVFSLREQLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPTNGKQIKRLSLILKK SLDREKTPELNLLLTATDGGKP ELTGTVRLLVQVLDVNDNDPE FDKSEYKVSLMEN

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23226	53594	A	23360	194	931	NSPVVPVMASGQFVNKLQEEVI CPICLDILQKPVITDCGHNFCPQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAEIWWEKIQALQ ASEVQSKRK\EAT\CPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQQKEKETVQVKAQGVHR VDVFTDQVEHEKQRILTEFELL HQVLEEEKNFLLSRIYWLGHEG TEAGKHVEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSCWDP\CPPSQ VVCLAGLPP*RVCQNPVKGP\ CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSRALH HTGFPCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHGTGNHSEGRQPITRSPEKP EP\CPSKRAPQTQQPWPAPSLC PPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQQMRKLHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDLDRHPP*TRETAS GIGGQRPGSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTTRVLIMKGAGHPCYLDK PEEWHTGLLDLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRAAAAAAAGQPQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVVAVAPA SPDRMSGSDGGLEEEPELSITLT LRMLMHGKEVGSIIKKGETV KRIREQSSARITISEGSCPERITTI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLRLVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERA VTVS GVPDAIILCVRQICAVILEGFSV QGQYGA VTPAEVTKLQQLSSH AVPFATPSVVPGLDPGTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQG\TKINEIRQMSGAHIKIGN Q\AEGAGERHV\TITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGG LHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRRPHSPSPWP/P/YTTP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGG L GHAQCWGQEF CPTQCP
23236	53604	A	23370	38	680	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTAR HSAAYRADPLRVSSRDKLTEM AASSQGNFEGNFESDLAEFAK KQPWWRKLFQGQESGSAEKYS VATQLFIGGVTGWCTGFIFQKV GKLAATAVGGGFFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEVVVSF VKKNVLVTGGFFGGFLLGMAS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVWRFVQDHFHDH NISPTIG\ASFMTKTVP\WENDFT KFLIWDTAGQERFSFIGLPLYYS RLQLAAVYSCYGYLPSRDFIFIT LKE\WV\KRLKELGPE\NIVMAI AGNKCDLSD\REVPPGMLKE Y\AESIGAIVVETSAKNAINIEE LFQGIS\RQIPPLDPPMKNKGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKV\QKVMV QPINLIFRYLQNRSRIQVWLYEQ VNMRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICRT SSSRYL\QNRIAGFQVWLYEQV NM\RIEGCIIGF\DEYVNLVDD AEEIHSKTKSRK\QLGRIMLK\G DNITLLQTCLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVVAGWARGHMLG QSHQQVAAPLKHRPITPTCLCQ KCLSLIKTKFLNAYITVSEEVA LKHAEESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETT\CASNM LKGYPYPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWYSYSK
23245	53613	A	23379	255	1042	ILAARMGKQNSKLRPEVMQDL LESTDFTEHEIQEWYKGFLRDC PSGHLSMEEFKKIYGNFFPYG\D ASKFAEH\VFRTFDANGDGTID FREFIIALSVTSRGKLEQKLKW AFSMYDLDGNGYISKAEMLEIV QAIYKMVSSVMKMPPEDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFAVQRASVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKLSLEEFIR GAKSDPSIVRLLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLKLRLCIDGFRSHSLPEEGP KKPCQHHAQEEPCTRSGRLPQ AHEGSISDCCTSSEQGSMDIGSV EPGTGYNLLVCHLL/STLEKRSI WAGVSRFSRYHLSRLPLARK\G NPLTPCASQLLLPLPSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGDLLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFYGHYKQATVGDINTE RPGMLDF/TGKA\KWD\AWNEL KGTSKGDAVEA\YLNQVAELK KKYGDMERLDLVTVPVYPKP ETIPFFSNTVDGWEFRENNPV KPATQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILTWILPTLLYRSCFHIIC LVGTISLACND\MTPEQMATNV NCSSPERHTRSVDYMEGGDIRV RRLFCRTQWYLRIDKRGKVKG TQEMKNNYNIMEIRTVAVGIVA IKGVESEFYLAMNKEGKL\YA KKECN\ED\CNFKELILENHNT YASAKL/WHNGGEMFVALNQ KGIPVRGKKTKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDVNVTF EDQ\QKINKFARNTSRITELKEEI EVKK\KQLQNL\EDACDDIMLA DDD\CL\MIPY\QLGDFVISHSQE ETQEMLEEAKKNLQEEIDALES RVESIQRVLADLKVQLYAKF\G SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYG PIFTVFAMGNRMTFVTEEEGIN VFLKSKKVDDELAVQNIVYRTA SIPKNVFLALHEKLYIMLKGM GTVNLHQFTGQLTEELHEQLEN LGTHGTMDLNNLVRHLLYPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQLECLLRN WSKSKKWFLFELFEKNIPDIKAC KSAKDNSMDSDEDPVNLQSR ALVCEMLHVQRSSSDADAIGPH ADHSLSNRWEVILADEHGIIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSDIDTSVFLNWYNP EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCIPCPYIGDPCIVRYREDG HYRALTINICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYEIITDVLITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGKISALPYENIDSEIK QTLGSYNLDVGLKKLSNKA VQNKIYMEQQTDELAITEKDVNII GTKPSNFRDPKTDNICEGFENP CKDKIDTEELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNMNICEEEF VEYKNRDAISALMPFSLRKA VMEASTIMVYQIISQLNYRTPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRCL CLLSPTSFDFSLLYESQSDRAIF GVGTEPDQEPPPPYHEQVPVSV YHPTP/SQTWVATQLTEEEQIRI AQRIGLIQHLPKGVYDPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDAALLSSYETN
23252	53620	A	23386	33	512	TAARCQGGPTHVPAFVGTACP TRIPGHAPARQCREYYY*YYD F/WKEPRRCHALLPPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQGAPSNRQRTDGCRWCSGR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVGLGRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRESVEYSHQ KSELPLSGDSQVPGPIGCNCDP QGSVSSQCDAAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDGC LPCFCMGITQQCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGEFTVEPVPEGAQLSFGNF AQLGHESFYWQLPETYQGDKG EAYFARMRRAHQNRSLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLLPGLSYYWQ LPRAFLGDKVAAAYGGKLRITL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCECNGHSDLCHP ETGACSQCQHNAAGEFCELCA PGYYGDATAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTGYCEQCQPGYVG NPSVQGGQCLPESELHFPSVQ PSDAGVYICTCRNLHQSNTSRA ELLVTEAPSKPITVTVEEQRSS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRLRAARSRRGASERESG AGRAMGWRAPGALLALLH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDDDEYM LADISGDDLGSDDLGSDFQM VYFRALVNFTRSIEYSPQLEDA GSREFREVSEAVVDTLESEYTKI PGDQVVS VFIKELDGWVFVE LDVGSEGNADGAQIQEMLLRVI SSGSVASYVTSPQGFQFRRLGT VPQFPRACTEAEFACHSYNECV ALEYRCDRRPPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPSLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA\GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVRLET ENRKLESKIREHLEKKGPQVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLEIDL LMRNPKASLENSLREVEACYA LQMEQLNLDP/GILLHLESEL TRAEGQL\QAQKYKALLNIK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	
23259	53627	A	23393	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHLLLDWDRFLDFPSSMA SKCQSPLLQKKKPRPLALGP EKTSASAGLPKKGEKEQQTIE HIHEVQNEMDRLEQAK\RSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGK DLMKRSSQTQNKAKRKRQHEE PESFFTWFTHSDVGADELGEV IKDIWPNPLQYYLVPMDNNEEG EGEEDDDDEEEGLEDEEG DEDEGEDEDEGEKGEDEGE
23260	53628	A	23394	3	923	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFWV TTFVN\HPQVSALLGEEDEEAL HYL\TRVEVTEFEDIKSGYRIDF YFDENPYFENKVSKEFHLNE\S GDPSSKSTEIKWKSGLDLTKRS SQTQNKASRKQHEEPESFTW FTDHS DAGADELGEVIKDDIWP NPLQYYLVPMDDEEGEGEED DDDDEEEGLEDEEGDEDEG EEDEDDDEGEEGEDEGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSLKR RNQDHLLLDWRFLDFPSSMA SKCQSPLLPQKKKPRPLALGP EKTSASAGLPKKGEKEQQTIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGK DLMKRSSQTQNKAKRKRQHEE PESFFTWFTHSDVGADELGEV IKDIWPNPLQYYLVPDMNNEEG EGEEDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQEAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLARQPPFFQKRSK\LSAGIPFW VTTFVN\HPQVS\ALLGEDEEA L\HYL\TRVEVTEFEDIKSGYRID FYFDENPYFENKVLKSFHLNE\ SGDPSSKSTEIKWKSGLTKR SSQTQNKASRKRQHEEPESFFT WFTDHS DAGADELGEVIKDDI WPNPLQYYLVPDMDEEGEGE EDDDDDDEEEGLEIDEEGED EGEEDDDDEEGEEGEDEGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWAEGLGRE WMRMPQEGKGSQRKSTQKQT KREIDAYIVQAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPPAPIPLRPFGLIQLLCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPLLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSDNMGV NSGSVPFHGVRIQASQLISLFSN FSFCEADLKTPLHGFLILPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHSIFEQGP AE MMKKKGNWDKTVDVSDMGPS HIINIKKEKRETDEETKILRML EKDDVDHHLSEHLVTTATFSI GSTGLVVYDYQQVECGGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQSDTEDECWS DTEAVPRAPARPREKPLIRSQSL RVVVKRPPVREGTSRSLKVRTR KKTVPDSDVS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQQI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IIRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLNPILLSPLLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARSRKPTGPSQ TLWVTLTVEDLKHAFFTIPLHP SSQPLFAFTWTDPDTHQAQQIT RAVLPQVFTDSPHYFSQAQISSS SVTYLGIIKITHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTLALRHESGCEL VWAEKHRNQIFPPKSTASPKQ WDTGRHNSDAKQQEPGGRER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSIIHP RFKGVRRRDACLGPSPLAASP AFLGKGQHAKGLKPVITRLLQ HGLLKPINSPFPS\PILPVLKPKD AYKLVQNLRLINQIVLPIHPVVP NPYTLLSSIPPSTTHYSVLDLKH AFFTIPLHPSSQPLFAFT*TDPD H*AQQITWAVLPQGFTRQPPLL QLSPNFILICYLSRHNSHKNTRA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLLGSIP TAASRARLHPGEINNHAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPLPALCSLRRHILRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRQYPIQQALKG LMPAITRLLQHGLLKPINSPYHS PILPVLKPKDPYKLVQDLRLINQ IVLPIHPMVPNPYTLLSSIPASTT HYSVLYVKHAFFTIPLHPSSQP LSTFTWTDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPAFFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPAFFTIPLR LSFQPLFTFSWTDPDTHQAQOI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLSPYQGGPQVSRRC S/RQVSQRCPHRGRGPCQVS RSHGPSWVGHPGMPLYGS\EQF YCGAPGLAGPPNGSRGESLKIS VWIFPCRDFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFYGHPPRDARVPRIV AEAKEKNLTPGKIIEDVTIEAQ IRQEFLDAERDTGGFVKFFRITK KKLQEFFLGEEEEEQVPHVSPVE LGAKPTAFNAFIANAVGKTLAV QHASLKAPEPEMTVTHERFYG NYAVWITDVPDPRNHRIVHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRRLLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHSN SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYPDNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGLKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPKKARMPEDNNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLYRSRKTDMST DAQLTREYDRCQAKAFMGKTA AFFGSLLCSLKFRWVKDGCOT AQTDGEHLEWNPWFESLLPE SRVTVLMHELWHVGLLHRSR MGSRDPEVWNYACDIYINNQLI QDGYSFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTSGSGDMKPSTSKASLKLSG GSLPGVLPKMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDGQSVSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDNFTETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLIFTGA QSGEDIVPFQLEDGHSLEVVV LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPPYSNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYSNGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYLRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPQGRKRLLLKRCRSLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFTKLGICKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTRIASF KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIAVCNPRQVRKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPFDELFLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHIF FRDRYGTKQRELLHILLAYEEY NPEVGYCRDLSHIAALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQQEHVVA TSQPKTMGHQDKKDLCGQCSP LGCLIRILIDGISLGLTLR/LWDV YLVEGEQAFMPITRIAFKVQQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVVDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLQQSQDPLLMGLFP TNPKEKTQEPPGQSRAPVLT VSKFKVLAGLLHLGNIQFAASE DEAQCQPMDDAKCEGQGVG WAGPVRKASLEQLLQVLHSTT PHYIRCIKPNSQGQAQTFLQEE AGAGRRRQRRRQKQRRRRRQ LGGGGDGGNGSVGDDGATRGS RGCALKECVATPRRGLLFSRP HKLAFAVGGSVTSVGPKPAP MDVVEVAGSWWAQEREDIM KYEKGHRAGLPEDKGPKPFRS YNNNVDDLHGLIVQDFADFGTTIK QDFRLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLIGLQLILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSSEHIQRIDRDISGTLR KHMFFRDYGTQRELLHILLA YEEYNPEVGYCMDLSHIAALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHERADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQQRLLTKTSRCGPW ARFCNRFVDTWARDEDTVVKH LRASMKKLTRKQGDLPPIAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLLPLLILCTVS VASYELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVTLTISGAQVEDEADY YCYSAADNNGWVFGGGVTKLT VLSQPKAAPSVTLFPSPSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAAED LEKTSENKLGKFTHSRTQIKG VSQNINYTTVALLPILTSIFEHV TQHQFGMDLLLDVQISCYHIL CSLYSLGTGKNIYVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTTRTKRRRRKSAA AVSARRAAAGGSRGAGGWT ADASGAMAEGGEGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAAEGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGGEGAAQGGGHRTL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILVSVSSERYLHLSVSNNGNI QVDASFMQTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCSQRLWATWNG CD/VCLNQSLREIPTDDKGFTAI HFAAQWGLACLQVLVEEYKF PVDLLTNNSTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLDCVKVL VQSGANVHAQDAMGYKPIDFC KIWNHRACARFLKDAMWKKD KKDFAREMTKMKMFKSQTLT MEHNYLIEYQKEHKILREAAIR KWLHGKLHPGHSLVSNTKQAR ATALSKTPEQRESQRSRSFHPSV DARLQCIPQPTMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFWGHAPGLLLLLLLLV LPPRALPEGPLVFVALVFRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRRQLELGRFLR SRYEAFLSPEYRREEVYIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPVAEDKLLR FPMRSCPRYHELLREATEAAEY QEALGWTGFLSRLENFTGLSL VGEPLRAWKVLDTLMCQQA HGLPLPAWASPDVLRTLAQISA LDIGAHVGPPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMV MYSAHDSTLLALQGALGLYDG HTPPYAACLGFEFRKHLGNPAK DGGNVTVSLFYRNSAHLPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGVTCHGPYEAIPAPVV PFLAGAVAVLVALSLGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSGRGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWLLRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSGWGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWLLGPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRITGLHSVGPDPQQLRE AKLGTMVRLVLLPTPRRTTEVR TGPRELMSVLEAILGSLLETAC DHRQTPSSKPQA/GSSRLREGT SAGQPCS/LRLRLGPRAGGRRC CRDIERSSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRRFRVRACVAGGSHCLFNS CCCCTSASLPARERHEWGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSSS SSSNQTEKETNTPKKKESKVS MSKNSKLL\SPRAKGIQKELAD ITLDPNCSAGPKGDNIYEW STILGPPGSVYEGGVFFLDITFTP EYFPKPPKVTFRTRIYHCNINSQ \GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIA TQYMTNRAEHRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRGSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRCRTFSRSSSQH SSRKAKSVEDDTEGLIYHVGD WLQERYEIVSTLGKGTGFRVV QCVDHRRRGARVALKIIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDFDYHGHMCISL ELLGLSTFDLKDNNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHTDLKPENILFVNSDYELTY NLEKKRHRSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGWSQPCDVWSIGCIIFE YYVGF\TLFQ\THDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPAQRLTLGEALQHPPFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYGPQHL\RLD NFVPN\DRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFIH LVIEGLVPFSNYERPCFGDQSLL NLKLW\KEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPFSL WV\IA\FLLQHPL\RFIL\QLVVS VG\QIYG\DV\FYFLKEHPRRDS KHGKPGPTPLLLPGFSFVFHEM PLWLVPAPGSPLCLDA\VKAPS THAPEHAWNAKGPQKPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPRDLLNGFDQNADS DMDNEVQAEVVTDGDEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELEDDDLGYLAEEISS EAFKSVSYEKAAHWNPLESTC RHASLALAVVLQRRDWENPVG VTQLNRLAAHPPFASWRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDFLGQWAPI LANFVHIIIVILGLFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFLLKDKKRKKQQPQQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLRLRVHRSKELRFRNC CLDFRGCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMCGGSP YIVPTGALPSGAVRRRPPSSRP NGRPTDSLHCVPGKAADTQHQ PLKAARRAAVPCATGSELPK
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGVAGIPNSGPDTEGPNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLHFSLPTSRSGRRKANR PMAVTVLLVLIRDCADLLAVK AVIHCYQDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEAPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGKEWLELEEDAQKAYI MGLDRLEVVSRRRLKVARA VLYLAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDHRVSVST ARSI AVL ELICDVHNPQDLVIH RTSVPAPLNSCLLKVGSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNRLQWVQLVDL TEIYG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNI AVWQFQLPFVGKES ISSCNTIESGITSPSVLFWWEYE HNNRKMSGLIVGSAFGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCSC SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMTAD KQNGTVYTCSSDGKVRQVIPIF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAIITTEGMIN GLHPVNKNYQVQFVTLKT FEE AAAQLLESSVQNLFKQVDLIDL VRWKILKDKHIPQFLQEAEKK IESSGVTYFWRFKLFLRLIYQS MQKTPSEALWKPTHEDESKILLV DSPG\MGNADDEQQEETSSKQ VVKQGLQERSKEGDVEEPTD\D SLPTTG\DAG\GREPMGRNSW GNSKGKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQV\RSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHFAAFYDNVCIIALCRKDP SLLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFKLLLIGDSGVG KTCVLA\FRFSE\DAFNSTFIFTIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFDNIRNWIRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS\GENKLALDYGIKFMETSA KANINVENAFTLARDIAKAMD KKLDGNSP\QGSNQGVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MV FYHVGQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFPSGRECN MAKTYDYLFKLLL\IGDSGVGK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELDGKRIK\LQIWDTAGQ ERFRTDHNRPTYRGAMGI\ML VYDITNE\KSF\DNIRN\WIRNIE EHASAD\VEK\MILGNKCDVND KRQVSKERGEKLALD\YGIKFM ETSAKANINVENAFFTLARDIK AKMDKKLGPARPHGTLLGKGE EFAGVAGASASGSASLGTLPKQ TRPCPVNPQASREHTAFSIPKQ QKDNMEGNSPQGSNQGVKITP DQQRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHH\FMELC\WD KCVEKPQGIALDSRTENCLS\SC \VDRFIDT\TLAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VIYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQGS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMGTSSPTPS LAPEHSSRASLEPSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRA WSSSSKAS/WLPDA AGPPTPPWSGPSPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWCS*VSTVANLPP GISKWGANWQRCCEMKE*CWSP AVTWCITCAQRSG/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLSNPTARHYL PVLYVLRILWARTPLPIGRRTT VSKVKMKKRILRAMRQKQQVL PLLVLGLDELMSAPSIPAANK ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAECITLES DWSKEEV LK GMTDNLLLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLT LNKHAAGDQHM RIFSR LARRIMHEEFRNALVNA ASADAIASLLNMNWT VKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCVRTKQPLSSVLISPNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLLLPLQILLLSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGSDTL/E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFEEYIVIAFKI LRRGPDISCSQINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLAND LMLIKLDES VSESDTIRSISIASQ CPTAGNSCLVSGWGLLANDPT SRLPPPLECRNPVPQLLLPPEKP RTAPDTLGSSPVPKSRTGSSGSS FLLPAPPSPFPRPHGTPPTSCG QDVDVPALAGGSLGSPAGEAL PRLAAPERLSRHHGKIPSPAPAD LTAILALETAGEEVFPLTSCA WMSSSSPPGLHEGLQGLTGKFH AVRWHPRLQEKRLQSVSPDSR IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFFKYFAYSPMPKNSKV KREDDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKDTDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVDQLDIE
23373	53741	A	23508	45	546	EGGGSRLWFRELIGQPVOQSFIE PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRGGPACW RTPGG/LASRSSSASILMSSSRA SFTRSLSLSTHKDQGLVCSGSS GATGAGSC/LWPPTSHTVKLMF LYSTVSTLKPMVGMVVTISPSL SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSWSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCLGKRSLSRVCALVP WGIWP/WSLAVGPQYSSLGSQP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIKGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPQLS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQSPGKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQV GSPPARVLGKKEPPQQGVCPGS LGHMARSLAVGPQYSSLGSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIKGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPQLS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQSPGKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQ\APRARGPAIHHPGP/RGCT ALPRQGPPTPGSARAPPRIPAHR APTSPTLNFCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPPGLPSPALLRRPLP PPARVGMPPHPPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPSASGPP**DLISALWTPS QPRAPTRQSLNSLSSSAPSSSTIG PSPSPAPGPAPPLPWLPSPSSL PRLSQVSRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFNLNTSLTTTSTHVES FGGQLRGSQIGHPRRPKNMPYA WSIPQDPPLKPERDPGGPLGVS LSLPVNQYGESEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDFYDE DMGDGGGGSYRSRDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCINGDDCMFSDPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCETHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAPGTPFSIGRAARRLS DASGLLDKGQVMTGYRWLQ RAGGFVWLQSVATVAGSGKSP GEHHVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPDPPPTLLHA GFLPPVVRGLCTPGTIRYGAEL GLVYPHLQRLGPG\PALPEAFYP PLGLPYPGPAGTRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSLSLFHINHGPNPFNMEVL VDSWPEYQMVIIRPQ/ETVRGE EKVQGNLTFHHPTQEMTDDM DSYTNVYRVFSKDPQKSQEV KNSEIINWKQLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSGLGSAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCEIGMGYSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLPRSPQAQGRAPSPAPPQIHL TTPSSFSSQGT/SHGGLGSTPGA DDPNTSSS\PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SPFCWPSSGQRSFHGIASG WEPDGIPDGSSRWEPCGKPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCCGP AGAALLGLSLVGLLLYLPAA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRRTLFA SPPAKSTANGNLLEPRTLLEGP DPAELLLMGSYLGKPGPPQPAP APEGQDLRNRPPRRPPARPAPR STPPSPPTHRVHHFYPSLPTPLL RPSGRPSPRDRGTLPRDFVITPR RRYPIHQTQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPT\GNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKRGRQVLIRPCSKVIVRF LTVMMKHGYIGFEIIDDHRAG KIVVNLTGRLNKVG VQWRDLG YCNLC L PGSSDSSASASLVAEIT \CGVISPRFDVQLKDLEKWQNN LLPSRQFGFIVLTTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDDPQSLGKLL*TLT GRLKQ/CLGVISPRF\DVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVIHIFT
23386	53754	A	23521	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDL/PPY ENGKWQNNLLPSRQFGFIVLT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAGKIVVNLT GGLNKC GVISLRFDVQLKDLEK WQNNLLPSCQFGFIALTTSAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLADAL KSINNAEKRGRQVLIRPCSKVI VRFLTVMMKHGYIGFEIIDDH RAGKIVVNLTGRLNKVG VQWR DLGYCNLC L PGSSDSSASASLV AEIT\CGVISPRFDVQLKDLEK\ WQNNLLPSRQFGFIVLTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGKFVVN PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLPSRQVLGFI VLTTSAGI\MDHEEARPKTPRR GKSWGFFFLGDVNYILFYKLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETEVIESLISLFQKYVGKGGYN CTLSKTEFLSFMNAELAAFTKN QKDPGVLHRMMKKLGTNNDG QLDFSEFLNLIGGLAMACHDSF LKAVPSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGPSVPAGMNP TGIGGVMGPSGLSPLAMNPTRA AGMTPLYAGQRLPQHGYPPGP QAQP/PAPTGGQENLL*GVSRA AVSARSLPGPFRAIPVSHLAGNP TPPMNPH
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEEITIDPTCSWKPVVPKPD HIKEPDGPALKRCRTVSPAHV LMPSVMEMIAALGPGAAPFAPL QPPSVAPSDYPGQGSSFLGPGT FPESFPPTTPTSTPLAEFTPGPP CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPHTNPGTPGLHTS NLGAPPGPQLHHSNPPASRQS LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEPALDLLPELT NPDELLSYLGPPDLPTNNNDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFEQAAAAAAVAAAA ATATATATATVAALQEKSQE LSQYGAMGAGQSFNSQFLQHG GPRGPSVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDGGGA NWRDPGLPVGDSGVWDRVLE LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGVDVFRRR SSGLWGPQPPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMLDTFWNLTSIG KKWKDQNIYEYQNP RRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQEYGPCKCQQPCKKA FRYRPSFRTQERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMOVV HSGDGPYKCKFCGKAFHWLSL YLIHERHTHTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECQ ECGKAFHSPRSCHRHershMGE KAYQCKECKGAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIR\MHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTSGSFYHERTH TGEKPYECKQCGKAHERHTTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKAFSS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHF\FQYHERHTHTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECKGAFIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDLTSALEQTSEQ NKLGEWEEMALSPRQQRQL RKRRGRKRRSDFTHLAHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRR\KVKRVTSEVAASLQQK LKVSDWSYERGCRFKSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDEMSECETSSVCSSSDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTVPNLLPKWAPDHCS EVERMDSGLDKFSDSTFLLPSR PAQRGYHTRLNRLPGAAARCL RKGRRLVGKETSINTLGTERTIS HIISDPQKDFWLPSAGKERN QFNPLSPLYSLDLADASHRRRC SPAHC SARQANVHWGPCCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFLHMAPGEVTITVR\LIRS LEHR\NFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLPPFRN YKYDALKIIHQAHKSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLNWFEELSSEAPPYNS EPAEESSEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVKTKMDQADDVS CPLLNSCLSESPVVLQ\CTHVTP QRDKSVVCGSLFHTPKFVKGR QTPKHISESLGAEVDPDMSWSS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYFSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCLASDEVKESKRINAEIEKA AAAETRRDARREL/RRLLLLT GESGKSTFIK\QMRIHGAGYSE EDKRGFTKL\YQNIPTAMQAM IRAM\ETL\KILYKVRSTRANA L\LIRGGGTLEK\TTFGAFSYVQ LPLKDLFGRDPGIE/CAYERQP RSYQLSDSAKYLLTDVDRIATL GYLPTQQ\DVPAISRVP\TTGII YFPDLENIIF\RMVDVGG\QRS\E RRKWIHCFENVTSIMFLVASE YDQVLVESDNENRMESKALF RTIITYPWF\QNSSVILFNKKDL LEDKILYSHLVDYFPRSSMGPO R\DAKAAEFILKMFVDLNPNS DKII/YTSHFTCPHRRRTSRFVF PAVKDTILQLNLEEKPGLSAP GPGRRDGDTGQDLPSTEPAAA RAGGAAESGPGPLPAGGDDFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSPFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFS\NFTLPANT TSSPVTDCGPSLGLAAGIPLL VATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDNPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHRYRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFS\NFTLP ANTVSTAAPIHQAT/PEKTSAEF TDCGPSLGLAAGIPLL VATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDNPKISENPRRSPTHE KNTMGAQEAHIYVKTVAGSEE PVHRYRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLSEMSFS\NFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLL VATALLVALLFTLIHRRR SSIEAMEESDRPCEISEIDNPKI SENPRRSPTHEKNTMGAQEAHI Y\VKTV\KSEEPVHRYRPTIE MERRRGLWWLVPRLSLGMMP TSNQGSHQTWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRALAAHP WKVQVLTA/GLLGRKAALLAP CQ*LYLPTQASWTEGHASCSSL QEATSCPSAFCA*NSKATKQLV ERRGLQEHQGRGRTLTMVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTA\ASGEEGSTA GPMPVAIPADPGLLD*RTRFLLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISQQLVERRGLQEHQ RGRTLTMVSLGCGFVGPVVG WYKVLDRFIPGTTKQVDA
23418	53786	A	23553	3	675	RHSRFGAQQSMALWRAYQ\RT LFA\LPWK\WQVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVSLGCGFVGPVVGWYK VLDRFIPGTTKQVDA\KKMLLD QGGFAPSFLGCFPLV\GALNGL SAQDNWGQTTAGELG/RDYPD ALITNYYLWPAVQ\LANFYLP LHYRV\AVVQCVAVIWNLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLKPKSTGVRAQRA RPILMPAYTRNLHHELEL\ALVI GQ\RCRAVPE\AAAMDYVGG\Y ALCL\DMTAWDVQ\ASARKKG LAWDSGE/DAFTASCPVQRVSL PKEKIPDPSQ\LKALGFKVNGEL RQGETSSMIFSIPYIISYVSKIIT LEEGDIILTGTGPKGVGPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSV\EDLQML \TNILFAMKEDNEKVP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPCS EDPEEKPCFYGSSPHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDEIHEKEEEEFNEKSEN DSGINEEPLLTADQVIEIEEMM QNSPDPEEEEEVLEEEDGGGETSS QADSVLLQEMQALTQTFNNNW SYEGLRHMSGSELTELLDQVEG AIRDFWE\ELVQQLARRDELEF EKEVKNSFF\TVL\IEVQNKQK\E QRELMKKRRKEKGLSLQSSRIE KGNQMP\LRFSMEGISNILQSG IRQTFGSSGTDKQYLNTPVPIYEK K\AYPPSVE\DLQMLTNILFA\M KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFKYFAYSPMPKNSKV KRELDVVTESVKDLSNEDA ADDAFKTSELIVDGQEEKDQDV EGK\SEVEDERPAWNSKLQYIL AQVGFVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQRLRVCDGGKQWWTV SQSSARAITNTDQKSVQLQDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPADG HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPAVD DDTRRGHGGVCGDGGAGEA
23424	53792	A	23559	510	690	LRSPQ\RGVAAPPFLGSPVPFGG FRVQGGMAGQPSAPPALQTDD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFHFPWRR/ISCPSES TRSIHVDRLPRRNSASLSLAFP VSAGALINGEAWVRMGQVPIP KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTGCRGDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLSPGSAMLRSPATFQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIP\S YLLTAPHPTARKLSSSPSESEG PENHMEKDSWKTLLRTLLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLGDSQNLACVFCRKHD DCPNKYGEKKTKEKWNLTVH YYCLLMSSGIWQRGKEEGVY GFLIEDIRKEVNRASKLKCCVC KKNGAFIGCVAPRCKRSYHFP CGLQRECIQFTGNFASFCWDH RPVQIITSNNYRESLPWHLLG NLFEPISY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEAGGGGPV*W N\GLQGPAGVPGRDGSPGANGI PGTPGIPGRDGFKEGKECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPGPAGVPGR\EGSPG ANGIPGTPGIPGRDGFKEGKE CLRESFEESWTPNYKQCSWSSL NYGIDLGKIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSKGKSKRKKDLRISCMKSP PAPNPTPPRNLDSTFITIGDRN FEVEADDLVTISELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQKRLMDLDINMRTVDC FYTVTFYGFALFREGDVWICME LMDTSLDKFYRKVLDKNMTIP EDILGEIAVSIVRALEHLHSLKS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTIN\AGCK VKHGHESLN\PDNLRKGCDVKS HVWSLGITMIEMAFLRFPYESW GTPFQQLKQVVEHPSPQLPAGR FSPEFVDFTAQCLRKNPAERMS YLELMEHPFFTLHKTKETDIA\A FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCSPPHPPRCGG VAQTAQVPDAPAPV*AGQHSR SYMEDHLKNKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISSIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLLLPPR VLPAAPSSVPRGRQLPGRLGCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSPVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPPGPRTLH EDLLPRTLGLQLQDELSPKVDG GVDRHHLMAALSAYAA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAAGQAAGMG PPLPLLLLLLLLLLPPRVLPAAPSS VPRGRQLPGRLGCLLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSPVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLPFLEALSQAPASDVLARTH AQDRPPAEGDDRFSESILTYVA HTSALTYPPGSRTLQREDLLPR TLGQLQDELSPKVDG

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23438	53806	A	23573	1	1459	MPLTSQDQVDQKTA AAVPTNRD STVPSDPWDCKRRPWPLLVLRLP LAPGTKAPPGGQNGRGRQKGS PCSRLLLLPAGPLGPASVRCIR TTTPQLLIITTSRFPSEAAVGY GSNTCIFANACQMVIMITWPY LQCIPYSVLLKDLEMRLNRELE DLIEAVYTDIIQGKLDQRNQLL EVDFCIGRDIRKKDINNIVKTLH EWCDGCEA\ALLGIEQQVLRAN QYKENHNR/TLQQQVEAEDVYI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDVAVWEAIEEGEA LPGKYRLKGGRSVWAAAVRA VCMDQVTNIKKTLKATASSA QEMEQLAERECPPHAEQRQP TKKMSKVGLVSSSPLGPAGA AGTHQAWVRWGGDTKGFPPL STCSEFQTCPSPHQRLPTLLVLF QKNCYSPSPTSPFSCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHTQPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVALVRPNGGTAASHVVCR EMRPLRPLQSRRCRRRTGISN MRALENDFFNSPPRKTVRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIKDD\QIINW\LEFRSS VMYLT\K\DFE\QLISIILRLPWL NRSQ\TVVEEYLAFLGNLVA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMPERPGH*ES VPKPGD*AKKSGGET\RGRKEG NEHRETFSQIPDCHLNKKSQTG VKPCKCSVCGKVFLRHSFLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDRKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSERVREADGGKHEQRS FGDLHPTAAPAPAASGCGTQPG RVKQPGEWQHREAPQQRQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWTGSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCSGCSSPRKDPGHPEAGNG PSRDFQPLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFSQIPDCHLNKKSQT GVKPCCKSVCGKVFLRHSFLDR HMRAHAGHKRSECGGEWRETP RKQKQHGKASISPSSGARRTVT PTSMRPYE\TKVCGKA\FISPIYF QIHQRTPTEKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFQIHVRTHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKKLS\CS SSLHRHERTHSGGKLYECQKC AKVFRCPSTLQAHERAHTGERP YECNKCCKTFNYPSCFRRHKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTGEKPFDCQWVKS
23451	53819	A	23586	86	390	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLLFALER QRRHVLSMDPKLRCWSRTGKA AFPWCLIAEMPDISPTFQRCQ TTQGRLPWSFTLSSKSRFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGPTGNRTVQLTW QPLPEPELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLSMDPKLRCWSRTG KAAFPWCLIAEMPDISPTFQR CQTTQGRLPWSFTLSSKSRFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLT WQPLPEPELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFHPNLIS LRPNPLCPHPDLVSLCPDPFPAF LEAHKNFQTPEPQQPGIPPEPPP PGACYKC/HEI*PPGQGMPPAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPLGRVNTEQIAP FSEAEGPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELWP KAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEK\TRQRALRG VSSVTEDTLNICRLCWQPLPEPL ELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDP MTSGPQT\TSRNPISPNPDPTG NRTVQLTWQPLPELELLPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQPLSPFNLGV TLQSLPSLNFNSFLFWQPLPEPL ELWPKAL
23464	53832	A	23599	144	488	GYEIWCRSDQGTFPWEINPPS SCSLLREKDPPTSGPQT\TRPR NISPISNLVSGLFLLSSPPSLTIPQ PLSPFNLGATLQSLPSLNFNSFH FLVETKETRFIRGAKIPAVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QHMH/IKNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAVPENPVYEKKPK KEVKKRWNRSKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTNRD\IICQ IANA\RIEG\DMIVCAPYAHLP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHFRGMDQIYE\GQVE LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFGPCP*R GA\VDGGLVLFPHSTKTIPPGY DS\ESK\EFNAES/IHRKPHPWAQ NVARLHAPTLMEEDEDA/YTK KQFSQYIKNSVTPDMMEEMV/Y RKAHAAIRENPVYEKKPKKEV\ KRKRWNRPKMSLAQKKDRVA PKKASFLQSSRSGLLESLTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVVFDDVSIGGQEVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCWP*MIAGDSDR RKDGVPIGYKG\STFHRVIKDF MIQGGDFVNGDGTGVASIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIENVPT GPNNKPKLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHGIQCVCYCTLPPLL QTTRRVRRNPPLTPSASGSEPW RLANSSPVNPVVFDDVSIGGQE VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVPYGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWPGLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTACALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NP\VVFFDVSIGGQEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTF\HRVIKGF\MI\ QGGDFVNGDGTGSRPVFTRGP ILQMKIFKL\RHSA\GLLSMAN SGP\STNGC\QFFITC\SKCDW/V WDGKHVVFGK\IIDGLLVMRKI E\NVPTGPNNKPKLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRSRKESYS VYVYKVLKQVH\PDGISSKAM GIMNSF\VNDIFE\RIAGEASRLA HYNKRSTITSREIQTAVRLLLP \ELCKHAVA\SEGNA\VTKYTSS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAWVRGLGASY RRGASSFPVPPGAQGVALLR DATGAEEEEAPWAATERRMPGQ CSVLLFPGQGSQVVGMRGRL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSQVIENC/V VS/AGLAFSPFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNACLEA REHCKSLGPVNGQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRTRMLPVS GAFHTRLM EP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLLAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLLGAAPLPWFPGQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVECSAGRGGPVRLAV GCVLLRAPERGWRREGGAARG IPAGRSES LGALSPQVGVRSDI GINGNIWHPGVQTFSSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNACLEARE HCKSLGIENPVCEVSNYLFDC RVISGHQEALRFLQKNSSKFHF RRTRMLPVS GAFHTRLM E PAV EPLTQALKAVDIKKPLVSVYSN VHAHQIGIPGHIHKLLAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPRQLGAILKSCNMQ AWKSYSAVDVLQTLQLEHVDLDP

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPPGAQGVAE LLRDATGAEEEEAPWAATERRM PGQCSVLLFPGQGSQVVGMR GLLNYPRVRELYAAARRVLGY DLELSLHGPQETLDRTVHCQP AIFVASLAAVEKLHHLQPSVIE NCVAAAGFSVGEFAALVFAGA MEFAEGLRFLQKNSSKFHFRR TRMLPVSAGAFHTRLMEPAVEP LERKLLKAVDIKKPLVSVYSQR PTRIRLQAFPGNIQQSCLAQQLG LPK*KWEQ\TMHAIYERKKG/R RGFPQTFEVGP\GRQLG\AILKS CNMQAWKSYS\AVDVLQTL EH \DLDPQEPPKMTGRGLKCNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PK ARAPRSLGCGSLGRFSTGVRPD KCIFPPETENAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PR AAAPRSLGCGSLGRFSTGVRPD KCIFPPETEMSYLLFRNTVSR CR
23482	53850	A	23617	1	673	MGQVKGHKLCLDFTLLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRS DTSQI LEENIPVLKA\KLT\KMRGIYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAFQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQQPVVRVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSTAMTLPMSDPTAWATA M\NNFGMAPVRIVGH

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23485	53853	A	23620	241	1823	NDDRAKFTVEDHTMQRD FWLWVYEIGYAADNSRTL NVDSTAMTLPMSDPTA WATAMNNLGMAPLGI AGQPILPDFDPALGMM TGIPPITPMMPGLGIV PPPIPPDMPVVKEI HCKSCTLFPPNPNLPP PATTRERPPGCKTVF VGGLPENGTEQIIVE VFQCGEIIAIRKSKKN FCHIRFAEEYMVDKAL YLSGNRELKKFLNKED NYFRKINLTALYKTV LEERCEKRRGGYRIRL GSS TDKKDTGRLHVD FAQARDDLYEWECKQ RMLAREERHRRRMEE ERLRPPSPPPVVHYS DHECSIVAEKLDKDS KFSEAVQTLLTWIER GEVNRRSANNFYSMI QSANS HVRLVNEKAA HEKDMEEAKEKFKQ ALSGILIQFEQIVAVY HSASKQKAWDHFTKA QRKNISVWCKQAEEI RNIHNDEL MGIRREE E MEMSDDEIEEMTET KETEESELKKLEGIV DGSVEVSAEALRKLL NEYERQVKEEQKVGY RIWGTHNKGEKGKEE FAEELEKSSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQQGTR KGRRA PARLPVPTTGR GLEKGPESQAPPSFR QATGRFSRSGSSGGPT PSKNSRDCSHTPQLPT PRGNPYVFPSPGHPE SRPVEMPAPG\EPRT RQLCRERTRKACPPK PRPPLGLPGDPTGPV THHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINK \PYGLPVHGWPWG\Q LCITDVLPIAKMLH GHKAEPLHLCHRLD KETTGVMVLAWDKDM AHQVQELFRTRQVVK KYWAITVHVPMPSAG VV DIPIVEKEAQGGQ QHHKMTLSPSYRMDD GKMVKVRRSRNAQV AVTQYQVLSSTLSSA LVELQPITGIKHQLR VHLSFGLDCPILGDH KYSOWNRLAPQKLSV GTLKKL GLEQSKARYI PLHLHARQLILPAL GSGKEELNLVCKLPR FFVHSLHRLRLEMPN EDQNENNEAKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVIMSTSPMCEGPVPRRK PCASSVGQQNSRSRKKAGRKTP TLAGRHPVKIKKEAIQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKV VENEAFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGTTSQ EAELIALTRALTAAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIHCRGHQTPDNPILAGN VLADQVAKQVALQPVQGGFLS LSLFSPLYSEEKEDFRAQNLQ KQGPW/LSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSR RRLRSAAEPAMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQG\LFMILWLKGV\VFST TVALKRKPADCQNLVPGTPPP\ LILFSSEVKTDVKNKIEEFSEEVL\ CPPKYLKLSPK\HPRSNTAGMDI FA\KFSAY\IKNSRPEANEALER GLLKTLLQKLDEY\LN\PLP\DEI DENSMEDIKFSTRKFLDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTGIWRYLTNAYS RD EFTNTCPSDKEVE\AYS DVAKR LHQVKSRLLEKVSFMSSP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRGNG QERVPLYLKLRLDTCAYRVAWRC NRLARAKVKRTSYRSGYGNGF EPGVEPDCVLLALGVENDLV RISSKAEKYSLYEFSFPLRVSRE CEECECRKEPWFNPGQKPSVLIT SGQILGQEEQKTLLFPGLLSLVF QFNVENSDDLRLCLSLAENLEISAL LSLSCSSVIRLILINLEVTISPITI LKHAPPLTSLEASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNHT SFDSYVVVSNIPLRLNLYPQVL DVLQSLHKIHLASNAKWTIQG PAKPDGLGLELGLHRYPDWEKE ERKKKRKRSVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSSPPHSPQPSPRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSTASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPVRVWSGCF DKMAGSGVRQATS\TASTFVKA HFSVGDME\AKREGARVLTAP WYR\EV\PT\VRVHQFQLD\TV KMGRDKVREMF\KNAHV\TDP RVVDL\LVIKGVIE\LEETIKVL KQ\RTHVMRFFH\ETEAPRPKDF LSKF\YV\GHDPLKSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWKCGVCCCKLD
23494	53862	A	23629	82	441	SLPINPVPTACTLQAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPAGPVFRSQPLAQPN LPRSYHQAPGGQTPVALGLE\ CPKATNQPFGLTQRDPKSPAKV PPFEEFSL
23495	53863	A	23630	3	504	DRSSSSTMSTGGDFGNPLRKFK LVFLGEQSVGKTSILTRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVNSFQQTTKWIDDVTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/AKA GYNVKQLFRRVAAALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSSTMSTGGDFGNPLRK FKLVFLGEQSS\GKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWD'TAGQERFRSLIP SY\RDSAAA VVVYDITNVNSFQ ANYKSGIDDV RTERG\SDVINM LVGNKTDLADKRQVSIEGERK AK\ELNVILMETSAGVYNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPQE\QPVSEGLF LTNLPCHLQPPFQKLTGFWPPY SFIDCSVNIGLMPFPFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPPSL/RARFLCPQRRP ERAR/PRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFFLKKLGRI KDVPWQDSTKEHLSVCRGLRG TWSVPSASDPLHPAWRRTCFRV PPTTGAREWWLHLPALQRP DSRQCHRIVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDTTVLADDF EFILWTLKRRPERAR/PRARGAS PRPEKTAGARKRRRGSCERPH GGLRRLPGARDQRAPPSDAG RSPGRLRRLPALLCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSILWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGGLFTRTHMKFGALTR IG\DLPWE\INPLSS\CSLLPEKDP PMTSGPQTDQPKHLTNFKSAA RRSRTSSHRNLLHVLEIWQLD QGMPAARDF
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TP\QETSPLSSPS\PTSGPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGGRIA
23501	53869	A	23636	31	246	TALLLTQSLFGGLFTRTHMKFG AVTRIG\DLPWGINPLSSCSLLR EKDPLTISGPQTHQPKHLTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG/DLPWEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLINF KSGACYTCRKSGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG/DLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLLTQSLFGGLFTRTHMKFG AVTQIG/DLPWENQSPVLLCSLL REKDPPTTSGPQTDQPKEHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRINALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEP NPKGIPEF WFTIFRNVDMLSELVQEYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSFAGPE IMDCDGCTIDWKKGKNVTVKT IKKKQKRKPGTVRTITKQVSN ESFFNFFNPLKASGDGESLDKD SEF/ASDFEIGHFFRER/PQAVLY FAGEALKDDDNFDEGEEDEDEL EGDEEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPLVTMNHIVQTF SPVNSGQP/PNYEMLKEEQEV MLGAPHNPAPPTST/VIH/IRSET SV\PDHV\WSLFNT/LFMNTCC LGFIAFAYSVKSRDRKMVGDV TGAQAYASTAKCLNIWALILGI FMTILLIIPVLVVQAQR

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23509	53877	A	23644	243	643	NHTVQT\FFSPVNSGQPPQRMRCI KEEHEVAVAGG\PHNPAPPTS T\VIHRSSETSVP\DHVVWSRVQ TPSSMNPC\C\LGFIARLT*SLR DRKMVGDTV\GAQA\YAST\AK CLN\IWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMPP KFDPNKIKVVYL\RCTGGEVGA TSALAPKIGPLGLSPKKVGDDIA KAMGDWKGLRITVKLTIQNRQ AQIEVVPASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR\HRSLSRELSGTTKEILG TAQSVGCNVDGRHPHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHYLLLLQHVCQLALT RARKEGSSTHHQKLSTYYFKEG NSKEPKKIQRNTELKKEEG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRGFF KGPLPNTCGHFWEWVWEQSR GVVMLNRVMEKGSVVEFVTEL FFYVALPKMFPVHYIVILLASKL EEVTFNFPPPDCTPFLQNYLR VAFQEVNSGCTGKTLLVRPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK ELHSRPQPHIFHFVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPLSALGPQRIGPP GSCLQIKSWVNDICQRQPGDW KGP*GFTVKLTHSRTGQAPDCT RVP/VLPSCP*FIQSPSREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMR\HRSLSPEKLSWNPT* RDSWGIAQFSGAVNVGD\RHP HD\IDDIQQWVLWKCPRQLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEDDGHDHSDKED EQPQVVVLKKGDLSEVEVMKI KAEIKAAKADEEPTPADGRIIY\ RKPV\KHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSEA KNIIPYQATQFQNEVHKWYKK KGGLKISKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAQQNERQKEKL YWLSYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQKDPSSYPCR IHKVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTTREALEDLKF LFKQKDNSSAKTPGRAYAASPR DWTSIEAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDHIES PIFRAIFSNITLMGIAPICVTGKTI KKRTRQHHTTPKSNLREQASQ GSLNWEWN
23514	53882	A	23649	200	1727	RTATSLDSVLYKSDYMTWKYR VSFFYILSCRLKK/QCTDNEHV YMELSKLYKYCPKEWKKEAS KVRQYEVTWVVS KRGDYILK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRYLKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLLQLLSNSHRLYMNQ PVL RHIRKLEENEEKQYRESYI SDNLDLMDQLEKRSRSGSS AGSMKHKRLSRHSTASHSSSHT SGIEADTKPRDTGPEDSYSSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNHSGSLIVKEI GSSTSSSSETVVKLRGQSTD SLPQTICRKPKTSTDRHSLSLDDIRL YQKDFLRIAGLCQDTAQS YTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRTITYVKG DLFACPKTDSL AHCISED CRM GAGIAVLFKKKFGGVQELLNQ HYKEKGLRTSQLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLKKHLNSGNSDSVCMAS SLNEDPEGSRITYVKGS\LFEGP KTDFLAPCISED CRMGAGIT\VL FKKKF\GGVQELLNQKK\S\GE V\AVLKRRWGRLYIFTWITKRK RAFAQSPLYENLTEEFRGQLKS HLSEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCCHRKQA AREIINMHFQAFWLCGLLFISI NAEFMDDDVETEDFEENSEEID VNESELSSEIYKTPQPIGEVYFA ETFD SGRLAGWVLSKAK\KVD MDEEISYDGRWEIEELKENQV PGDRGLVLKSRAKHHAISAVLA KPFIFADKPLIVQYEVNFQDGID CGGAYIKLLADTDDLILENFYD KTSYIIMFGPDKCGEDYKLHFIF RHKHPKTGVFEKHAKPPDVD LKKFFTD RKTHLYTLVMNPDD TFEVLVDQTVVNKGSLLLEDVV PIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPDDWNEDTDGEWEA\PQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDH\PILLTSFSALG LELWSMTSDIYFDNFIICSEKEV ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD\ RHSDLEYIIPDICIPQTKGVLEQE EKVEKAALEKPMDL EEEKKQ\N DGEMLEKEEEESEPEEKSEEEIEII EGQEESNQSNKSGSEDEMKEA DESTGSGDGPISLRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNCQKS GHWAR\NARSPGFLLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPLFFICLRGDFKQ NLTA YCWKCYQL* RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLCSLIFSVTMMKFLAV LVLLGVSIFLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTATTAASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFQDKSSDKKVQTKG KRGAKGKQA\EVAN\QETKEDL PAENGETKTEESP\ASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNIFINYFVNASFLVALETFLKK
23531	53899	A	23666	3	478	APAVGLSSSGGGRSGSGKAARF REGCRRAAARMQQAPGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEPKRRSARLST\KLPAK V\EA KPKKAAA KDKSSDKKV\Q TKGKRGAKGKQA\EVANQETK\ EDLPAENGETERLEEESLLIEA GEKEPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADCIGC\RT CE\VACVVAHPSEQELNADVFL PRLKVQPIWTA VSAAR*CCPFSS ENAP\CVGA\CPVGA\LTMG EQV VQTNSARCIGCQSCVSACPF GM ITIQLPGDTRQQIVKCDLCEQR EEGPACVESCPTQALQLLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVF LQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFAVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPSLSHQDSTQRLYGIARL LLRISTSGPPPSRLKVQRLDSISA PV/MCHQCENAPCVGACP/VGA LTMGEQVVQTNSARC/IGCQSC VSACPFGMITI/QLPGDTRQQI VKCDLCGALRDCVAVLRQRRN SRVVLD ACTRA
23540	53908	A	23675	2	434	LISLPFPDLSLAHRPPSSAPTEPQ GLFTVAAPTPGAPSPATLAHL LPTPAMYSLLETENPNVGTPT QAAGTGGPAAPG/GRKMALEN PKMHNSEISKRLGADWKL L TD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTKTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEEDNNSNDSKNKDKTLT TGSSGSAKIFLMRGGRQLLLP TSLCLLSVQRSPGSHESGPPQS MNPRLSPQGKYLKNDFLDVIG MCDIACHLVVELLVGNNGNFL AHAFAHVEVVAQQNQRENAA RPNGGSVMIGQGASLRTCQSRV LRVARGGSPSPNGESEQGLFTV AAPAPGAPSPPATLAHLLPAPA MYSLLETTELKNPVGTPQTAAAGT GGPAAPGGAGKSSANAAGGAN SGGGSSGGASGGGGGTD\QDR VKRP\MNAFMVWSRGQRRKM APENPKMHNSEISKRLGADWK LLTDAEKRPFIDEAKRLRAVHM KEYPDYKYRPRRKTKTLLKKD KYSLPSGLLPPGAAAAAAAAA AAAAAASSPVGVGQRLDTYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALPPMHRVDMA GLQYSPMMPPGAQSYMNVAA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAAM SLGPMGSVVKSEPSSPPPAIASH SQRACLGDLRDMISITGRENIFV VGDPAACLLPIEMEETFLPWPL GFEDRLHLEGPRPVQEIPSLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQQEQPCLSLIVGIF VEAFGGRGRWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LG NK RAG LRRADGEAPSALPY CYFLQKDAEAPWLSKPAYDSA ECRHHAAEALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFKYDDAERR FYEQMNGPVAGASRQENGA\T VILRDIARARENIHKS LAGSSGP\GAS\SGTSGDHGELVVRIASLEV ENQSLRGVVQELQQAIS KLEAR LNV LGKELRLAHRGTAPQTQH VSPMR\QVEPP\AKKPATPAEDD EDDDID\LVGRDNE\EEDKEAA QLAREER\LR\HYAEKKAQESLP LGGQVPPSLLDVK\PWDDESDM AQLEACVRSIQ/LGTGRSWGAS QMVAVGYG\IRKLQIQCVVEDD KVGTDLLEEITKFEEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAP TQVSAASSRPPLPS PPETEGRVKGFLQPGPHCPAQC LCSGDDGSNEDLEQKREVIFPR PHEAPVAEHRQQTVGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELLDQMRLLYRDV MLENFV MASLGWC GAVDE GTPSAESVSVEELS QGRTPKAD TSTD KSHPC EICTPVLRDILQMI ELHASPCGQKLYLGGASRDFW MSSNLHQLQKLDNGEKLFKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQHQTPTI ERPHSRIRHLRVPTGRKPLKYT ESRKS FREKSVFIQHQRADSGE RPYK CSECGKSFSQSSGFLRHR KAHGRTRTHECSECG\KSFSRK THLTQHQRVHTGERPYDCSEC GKSFRQVS VLIQHQRVHTGERP YECSECGKSFSHSTNL YRH RSA HTSTRPYECSECGKSFSHSTNLF RHWRVHTGVRPYECSECGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFGQKSVLIQHQRVHTGER PYECSECGKVFSQSSGLFRHRR AHTKTKPYECSECEKSFCKTD LIRHQTVHTGERPYEC SVCGKS FIRKTHLIRHQTVHTNERPYEC DECGKSYSQSSALLQHRRVHT GERPYECRECGKSFTRKNHLIQ HKTVHTGERPYECSECGKSFSQ

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23546	53914	A	23681	1	468	MAAQVGAVRVVRAVAHEEP DKEGKEKPHAGVSPRGVQR RSSSGGSQEKGRPSQEPPLAPP HRRRSQPPTSWAAAVNDM/PAP TVPGPVEPLLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPLTA SAAGPKHKGTQGAAQAPSPPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLKWSKRGKPLAVEI EESHCL\CLPLRTECLGIKPIVH LFSCTRPVIVPSLELNVDVDSIA HMFVADLLMITLPSYDIPFYC LVFQNLVLVEFYLY
23548	53916	A	23683	271	918	NQGLRDLGLCRICLVNKMFTSS ILGKGHRHSLVSIKQEHSAIRK AAG\PLPLKVGYC\QGFSPCDSL KYG\SWDEKDLTVPQPDTHKGS VLRWISKRGKPLAVEIEEG\HCL PELPPGELECPG\ILKHGLYHWS SSEMGE\NRPMVG\ARHVYSNA ALLFFTALRIFGQRRNINLGLRA HPG\IVPPELENYDIDSSAHM/FF LADLLLIITLPSYYIPFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRRFPVFSCSSSRV AAISFHKRWKEGRCFGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWRKITRFKEAASWTL EAL EEAGSTARRRVWLEDGRR TCEILSVLCTSSLSSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLREE GFRR\INYSSELKEEARTHGKEVI NLEKK\LDERLTRITNAEKSLKD LMELKTMARELRDECTSFSSQF DPLEERVSVMEDQMNMK\QE EKFREKRIKRN/EKQSLQEIWDY VKRPNLHLIGVPESDRENGTKL ENTLQEIHQENFPNLARQANIQI QEIQRTPQRYSSRGATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNIKEKNFQPRIAYPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELLKEALNMERNNWWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAAARHA

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23552	53920	A	23687	322	402	DQEPTNSGHIGNLEQCLGHGYQR*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRCAELTAILLNEQAS PMCTIVLGYTGTSTITLPRTSCH FAPRLSNSQQHSSYQVGHKPES YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRTGAAGG\ VPASPAPCARTPQPLGGRWDW AP\GTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKAAK ARREIESSAGYSNSSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAFTV HENPLLCSYRCWYPGKQEQQK IKPQRGGKNRAEKLETLSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFPCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSISTLVNLTIMCLG VALLEKYLGCILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTFELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIQYLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQQDRRTVQSLGEKP GLPEEMAAFMAGTEKEQNELG IEFFQLIIPASKRTHSENAIFS GDDTECSRSGQSPPSYSRGP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQALPRQLTTL TFYPPAFRSIKIFRIMLKTEMLH THARSQEALLKDSSKTMLHSTL PSCVRKSNIYHHRERKIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCSASLEV LAPEGGMSPGDATMIPLNWK LTLPFGHSGLLPLSQQVKKRV PVLVGVIDLDYQDEIDYYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLSRSC DQLEERVSAEDEMNEMK
23559	53927	A	23694	933	1118	RVERRRLQTIKLLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REVLKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHRE*LMSSRLHSR* WAASSVCSSCVLLPSSHS
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSISTL/ RESDNYSWSCSSRGVSL*RSL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTQMQI WFHFIHFIFHH
23564	53932	A	23699	434	681	TLACLARLGKFSWIISCRVFSNL VPFSLSLSGTPIRRRFGLFT*SHI SWRLCSFLFILFSLNFPSTRFISFV SSSITDTLSSS

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23565	53933	A	23700	290	1231	RSFRAIGEVSIRGWGGGYAAQ LQSPSRLPVLGGGKKGSSRGV GQGSSRAEVLGSQRERSGTG AEAAAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRIL MVGLDAAGKTTILYKLLGEIV TTIPTIGFNVETVEYKNISFTVW GCGVARDK\IRPL\WRH\YFQNT QGFDILWSDSN\DR\ERVNEA\R EEL\MKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAG\IQDKL G\LHSLRHRNWT\QATCATRG N\GLYEGHLHWLANSVPKQEVES RTALT KHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLLELEVTCT CWSWQPLLEPLELRPLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTVTPCPLLRLSL LRACCCCLFLPLRFFSCPLLCL LCFFFSVCSPAHNKFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A\RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*PRLSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPROCEESAIGP KFAWIISFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPELEL*PRLSD
23579	53947	A	23714	684	917	GDFGLRQWGFLNIQSCHLQTGT I*LPLFLIEYPLFLSPA*LPWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLTLPRLGVQWPDGSLQP RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPGRPAGCSRGRARA CPKPVDPVHKRPMNAFMVWSR AQRKMAQENP\QMHNSEISKR LGAEWKLLTESEKRP\IDEAKR LRAMHMKEHPDYKYRPRRKP TLLKKDKFAFPVPYGLGGVAD AEHPALKAGAGLHAGAGGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSSGLPV LNMPNMHINSLGKNLALNLFV YNDANSMLDLCYDGDGKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVIPTFSN HPLMSQRPSTWRQNPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPPTGSPLKHPGGAS GAAGAPIGEPQHPGAVVSVRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTLGLGSRRDGTREKG VEETPHRLHARTDTPAGCCGS PIGAPAAPEAPPGCFEG\PRWVE GVKKASPPLPAELIGWLVNFPL ARPVRRPSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTHIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSPKDNSLTEESWLREGN VHRGMDEYVRAQSFLILMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPHCHDHYHHHHHHCHHCH HHHHHCHHHHHYHHHHHCRDH HYHHHHHCHHCHHHHHHCHH HHYHHHHYHHHCHDHYYHHHH HCHDHHYHYHHHHHCHDHYYH HHHHCHDHHYHYHHHCHDH YHHHHHCHDHYYHHHHHCHD HHYHHHHHCHDHYYHYHHHC HHHRYYHHHHHCHHCHHHHH/P HHHHHHHHCHHHHYHHHHHC HHHHYHHHHHCHHHHYHYHC HHHHYYHHHHCHHCHHHHYH HHHHCHDHHYHHHCHHCHHH HYHHHHHHYHDHHYHHHHHCH HCHHHHHHHH\DHHHHHHLCHH HYHHHHHHHHHHHYHHHHHH HLHCHHHHYHHHHHHHHHHY HHHCHHCYHHHYHHHHHYCH HHYHHHHHYHPYHYHQHHHH YHPHHYHHHHYHCHHHHDYH HPHHCHHHHHYHQHHYYPITII TTTITTTITIIITVTTTTFTTTNT TAPTTTPVTAITTTTTTTTITTT TPITITTITNITTTTVTTTITTTT TTTIHPYHHHHHHHPVTITTTIT TATITTTTSITSITTTTIVTTIII TTTAATHHHYHPYYHHYHHHH HHHHTHSYHHYHHHHHHHCF HYHHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLHLRSLSPPLL/CSSP/ TPPPQLPPPPVSLASGYPLLHPL ARYPACPLPPRRARTEQRGGEQ PGVGASPLPIPGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALAI PYLESLLGKSREIFKFKERVLQT PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDP\GASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVD\GWIPALT QHVFLAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIIPEEYVLA RIAAENLRKPRIRDRLPKARFIA KSGACNLAHKNIREQGRFLQDI FTTLVDLKWRTLVIFTMSFLC SWLLFAIMWWLVAFAHGDIYA YMEKSGMEKSGLESTVCVTNV RSFTSAFLFSIEVQVTIGFGGRM MTEECPLAITVLILQNIVGLIINA VMLGCIFMKTAQAHRRRAETLIF SRHAVIAVRNGKLCFMFRVGD LRKSMIISASVRIQVVKTTTPE GEVVPQHLDIPVDNPIESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTQ ARTSYIAEEIQWGHFVSIVTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNS\LRKRNS\HRRNNFHRRN N\SIRRN\SSLMVPKVQFMTPE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSCLKVTSVCLTSAAASCRH RRSVEEYLV*KLPM/WSRRRK AAALTES/V/CIVFWLASWMMS RWLHYPDWVTHIAQQVLMNVV SVMQADCRMNLLIFLRWLMR KIFHNILRHFSQLLNPITRPFS WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLEI FLRWLMRRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRA VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLRFCRHLYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQGTGTVPLVSS
23604	53972	A	23739	515	774	LFPRLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLSCLTTPPHCSFSI CFVICSRILILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPVCGRDVKSTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFSGIPAYSMCI/CI GMAERMWCDNRNRHTVSSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQGTGTVPTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LLTARLTWVSARLMSYVLLMC *LFPRLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMMWD QLWRGRP*RRCQQPQCGG*WH CFWATAHHSPLDSTLNHLHCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPPGGVAVLLQLGCCV LQDVSCKRLCYNRKGQSEIVL MS*ITMWKLFPRPPLPFSTCIC *KTCGKRGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKERPPGNSL NVSRMVWDHDPTRVVGLIIGL GPRSHLYCRSDYQQRSVTSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTAQVAPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLSTAAITSRAFLPDRRITT PPATSPSPFSSAMPRRISGPIWTF ATSRRT*TGTPFSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCLN YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTTFADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSERAWCTVETGRVHRSR VRVSRNTARDPANGLGHLLQS LGMPALEPGPTLGSAIRWEFLQ TASPQLPVQPLHPAAATPQRS RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHSNAETPI* FAANADTSRPGPFLCR
23623	53991	A	23758	537	795	ADCPLHMGRPCID*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TGI/DGPKYLVTAQVAPARYPGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQQSSLPRCRASQRTLH LLLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLD SGVQLASPSGSRTG ATGGAAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRPAFH FKVSLSLPFSCVSSPFGPPLGPS PRKHQMADDAGAGVGGRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGGRGVRGGKAE YKEWMTVTKLGH LVKDIKIS LEEIYLF SFFKTSSSLKDEV LKI MLVQKQTHTSQCTRFKAFVAT GDYNGHISLGIKCSKEVATAIC GAILLAKLSIVPACRGYWG NKIS KPHTIPCKVAGCCGSVLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPESCKDGSHSRSF
23629	53997	A	23764	2	260	LLEECRLSRCDQLEERV SAM EDEM NEMK*EGKFREKRISPKR APERSAKHGKEQPVPA AAKSC QNVNTIETRKKLHQLTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL R EEGFRQSNYSELWEDIQTKGKE VENFEKTLEECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLEV LAR\QL GRKRK*RVFN*EKRSNCPCLQ TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYTPPT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSLHLIQSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*AWARTSCLKHQKQWQQR T KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*TQTNLQEKNKQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNEIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLIAAGTTGFPTGKRAVS ATQLMTQFSPAREQSWRKN/DF DELRKE/GFARSNYS\EKCLKEL MELKTKARELREECRLSRSCD QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTLEN TLQDIIQENFPNLARQANVQIQE IQRTSQRYSSRRATPRHIIVRFT KVEMKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEPP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSELQEETQTKGRE VENFEKNLDECITRTTNTKCL KELMELKAKAWELREECRLSR SRCNQLEERVSVMEDEMNMK REGKFREKRIKRNEQSPQVIRD YVKRPNLRLIGVPESDGKNGTK LENTLQDIIQENFPNLARQANI IQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNNR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTGKKE VENFEKNLEECITRITNTKCLK ELMELKTKARELREECRLSSR CNQLEERVPAEMEDEMNMKE D/GNRYDDRRQ/RKEEIMIKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLKKLCEQEFVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEDIESEAEDNGKWES VDRTSFFPALTSFQQSMIHKKI MTVFKSVEPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAALLSP AASGRVSKHQHIPTGFDPDKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKECSSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	1	2152	MDILGWASRAHKWKGRATGT HVFNLMREYLLISLQCCASEQAA SPEHGASFRVWKSGLGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDRLRLVMDANKWEFRRH ALRPALTFFPNEGDDLGV EALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDPA GVEGLAPVPVLP GVRLEATAPK QPPRLPARLRAPLPSGRKLNK CPRLRWGFFVQDGDGTELACL SEG DGGCCQEAPLDHRPRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLVM SSVQQGKLTTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKECSSSPA MEQWTWTDNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRLSRCDQLEER VSAMEDEMNMKREGKFREK RIKRNEQSLQEIW DYVKRPNLR LIGVPESDVENGTKLENTLQDII QENFPNLARQANVQIQEIERMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKGRVTLKGKPI RLTAVLSAETLQARREWGPINF ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTRPALKE
23666	54034	A	23801	1	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRERRRRRVISAFPSEVPG SSHQGVDPDSGCRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSPATEQSWMENDFDEL EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECSRLRS RCNQLEERVSVMEDEMNE RECKFREK\RIKRNEQSLQEIWD YVKRPNLRLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFPSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNLTQSR STTWKLNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEIETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTIREYYKHL KLENLEEMDTFLDTYTL EEVESLNRPITGSEIVAINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVVAFISSQEAQE DSREEEDRLESIFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPBAGKQCASRSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQTLTKTCSKSQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLLV TQLGRYTSQDQQAQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSDNKALSKLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRSLRSQCDQLE ERVSAMEDEMNMKREGKFKE K\RIKRNEQSLQEIWDYVVRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLRQANGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTGNS\KTQSAFP PKECSSSPATEQSWMENDFDKL REEGFRRSNYSEL\REDIQTGK EVENFEK\NLEECIT\RITNTEKC LKELMELKTGSRNYVKECR\S LRSRCDQLEERVSAEDEMN MK*EGKFREKRIKRNEQSLQE I\W\DYVK\RPNLRPIGVSESDG ENGTKLENTLQDIIPENFPNLA RQANVQIQEIQRTPQRYSSRRAT PRHILVRFTKVEMKEKMLRAARE KGQVTLKGKPIRLTADLSAETLQ ARREWGPIFNILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMSYTV VGQGALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAFGRTERAAGGGDGA\RP \FGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVIS\LEK LENDKSFRDVILTSD\RPGVFSA GLD\LTEMCG\RSPAHYAWVLE RPVQELWLRLYQSQL\VLVSAI NGA\CPAGG\CLVALTCDYTLA AGNPRYCIGLNE\TQ\LGIIAPF\ WLKDNPWRTPIGHRAAESALQ LGLPLPPPAEALQVGIVDQ\VVP \EEQVQSTALSAIAQWMAIPKP MAHK\LTKAIMRKGQPPAWS RKGADVQNF\VSFISKDSIQKS LQMYLERLKEEG

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSSIKGSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSALGGSSYSSCYSGGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALEEA DTELEVKIRDWYQRQAPGPAR DYSQYYRIEELQNKPPPSDDL TLPSPLILTATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKNHEEMN APRGQVGGEINVMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVATNSE LVQSGKSEISELRCTMQALEIEL QSQLSMKASLEGNAETENRY CMQLSQIQLIGSVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEDAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSRSMKGSCSIGGSIGG GSSRISSVLAGGSCHAPSTYGG ASCLGGGGYGGGFGSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFTNYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSPQPRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKSDVEV YNIKKESNRQRVGLELIASENF ASRAVLEALGSCLNKNYSEGYP GQRYYGGETEFIDELETLCQKRA LQAYKLPQCWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKISATSI FFESMPYKVNPDGTGYINYDQLE ENARLFHPKLIIAGTSCYSRNLE YARLRKIADENGAYLMADMA HISGLVAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTGKEILYNLESLINS AVFPGLQGGPHNHAIAAGVAVALK QAMTLEFKVYQHQQVANCRA LSEALTELGYKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLGTMSTCSHQFTSSRSMKGS CSIGGSIGGGSSRISSVLGGSC HAPSTY/GGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWG\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYEH ELALRQTVEADVNGLRRLDELTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDLSRILNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSEVTELRR VLQGLEIELQSLSMKASLENQ LAEETKGRYCMQLSQIQLIGSV EE\QLAQLRCEMEQQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSQQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTDRSQGDRGAPAGFAL APILEFFLWDTSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGETSSAKL PRCR/QGGWAGDSVKASKFRR KASEEIEDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTL DGEIDLKLLTKVL APEHEVR*VQWWQQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLQLREKALSLSYPAPKF L\EDDVGWWDHLLFTEVSSEV LTE\WDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPWGPGFGGWGGATPPAP TSLRRLRAAGLAPRRRAKMGR RAQQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEEIE\DFR\LRP QSLNGS\DYGGDIP\MPDLEEVQ EEDFVLQV\AAPPS\QIKRVMT YRDL\DNLDLMKYSAIQTL DGE D\IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDP\LQTEKEDPGG Q\ARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQPACGVSRTYQQSCVSSC RR\PAKCVGASERIKTPRPASCF QDLPACCLSLNSSS
23688	54056	A	23823	1	538	PTRPLQATCSPLSDIMSFNCST RNCSSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS T\PTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRTYQQSCVSSCRRTC

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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGC AGCSCT/GTSASHPV/CCKCPLH PVCTLADVHGCITSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPSP CQSGCTSSCTPSCCQSSCQPA CCTSSPCQACCVPVCCPKPVCC VPVCCPKPVCCPKICVPVCSGA SSSCCQSSRQPACCTTSCCRPS SSVSLLCRPVCRSTCCVPIPSCC APASTCQPSCCRPASCVSLLCRP TCSRLSSACGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTRLQPEEADVPAYPKV ATVPQSEKKPSKYPLCSADA STTPPGSPPPPPPLPEPPVLK VLS SLKPAAPSPATAATTAAASTA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVPAPLLDPIVQQF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAAAEREVEAYDPEDETI LEEAKVTVDLPLNRMCADVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPAHS RGPRVVRA\PPPPGPRHRSPAE PPPPPGTEPSVATYSIKASKRVS QQDRCHNLMKSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPGAAEKTTP CDAGAAGAAPGAPGHAGNPGL GSGPDYD\GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSSQEESGSPHSEC DSVGVDWRGQVRSLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGVKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDTIDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDSLSAGVPNSSEE TATIENGP
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYSLTTILLVQPTKRPE GRTYADYES\VNECMEGVCKM YEEHLK\RMNP\NGPSI/THNTTS QLFDFID\DLADLSCLVYRA\DT QTY\QPYN\KDWIKDEDPTVLLS SGKAQQAREIIVVGSHWGGWG GAWDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA EASPPALEASEAQTRKAPECGSV PEVAGGSCPCLLLCLPRHQAVP TQGPGTYSPTSHQPHIFRPAA PHHLGLLQNPHNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTLSLRGATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVSPPPPA EMSSGP\VAESWCYTQIKVVKF\ SYMWDPSITLAFCREEMG\EV\ KSSTFSSGANDKLKWC\LRVNP KG\DEESKDYLVTFTCYLVSC\ PKSEVRANFKFSILNAKGEETK AMESQR\AYRFVQGDWGFKK FIRRDFLDEANGL\LP\DDKLT FCEVSVVQDSVNISGQNTMNM VKVPECRLADELRGLWENS\RF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMEESKKNPSL KSMDEV\PEVFKE\MMCFIYTG KAPNLTKMA\NDLLAADKYA L\ERLKVMCEDALCSNPV\SVEN AAEILIL\ADLH\SADQLKTQAV DFINYHA\GDVLETSGWKSML SHP\HNLVAEAYRSLAS\KQCPF LGTPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIIY*NLLKQEDSINVT TSIRASVDILIPDPPPKDDEMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIVVIT WIQHLIPKIEDGNDGVAIQEK VLERVNAVKTKEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRQNLQFEA \EEFLYRFLPQKIIYLNQLLQEDS LNVADLTSLRAPLDMPIPDPPP KDDMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTLSRLAEALFGVQTYDQDA YGFLTPSAQSMKVFCCLWKL VCKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPKTIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR EAPSIIGDIKTTIVSTPTGSPKSSPT TQCRLPAVPPARPGLRSPAPGPL PAASTLGEAPVVPSTPGASPDPL GPPPQVPSRPSRGPQPQDRMPC GLAGDLTVGFLEPTLQAIHRS LLLRPANSPESQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQP ADTQPTSPMPPRCPGGSETKPK KAAGKDKSSDK\KNKTKKQMK AEKGGKEKQAEVADQETKDL SAENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCRGA *WLEGKLTNRKE*HQYQRKGH PRKNTIQRSPTLKTKANIILNGQ KLEAFPLKTGTRQRCPLSPLLFN MVLEVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLYELDPKYKNDSENTDGS AVVHKIIACDKPVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRHTGKPL LPKIDESTKMGRNQPKKAENSK NQNASSPPKDHNSPVRQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDQA/GSRPRPIPTRQ ADPRTPPPTREKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AIITANVFKFVSIDRGLVCNMEL EGSNCFIDVCSWTSEMKS GTSRR*KIT*GNSSGSLPRDTQ RSGHRNSSLCCERSKYGGSRVD IRRKVF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLEKTKDS VKKLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSSNLH APERTVAGLTFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWFQNRMRMKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGS/L WLPLGSFWGLRQMDQEALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPPTTCLPHKRSVQIASDAY PEDSAVLFTSWRHLSP
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFTGT REPPQAVSTKEASSSNLHAPER TVAGLTFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWFQNRMRMKHKRQMQDSQ LNGPLMGSPGAPWLSTHIFLA LAKGLQ\LLCPWA\PLPGSPGCP LGSFWGTP\QMDQEALASSWA GCCG\QPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRS
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTPPGLQ TDCEALLSRFQETDSVRFEDFT ELWRNMKFGTIFCGMRNLEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDVLEKFKQDLV NAQHFDAAYIFRKLRLDRAHFH TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNINIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAESLAKIKS KA\FSVVIQASKSRRHRQVKLD SSPLDSASGQGQVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSLMPVITEEENES LSGTEFTASKKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCTFYP GKCICPPGLEGEQCEISKCPQPC RNGGKCIGKSKSVCEPGCGAH GTCHEPNKCQCQEGWHGRHCN KRYEASLIHALRPAQAQLRQH TPSLKKAERGDPPESNYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADY LISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGIGFIIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG\DVLEGKMRHGF S\IPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDLSQGNSLYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMCSSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSKYFFSDG VWLKKYRGMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPD SR/RPL WLRPIAPALGPSGRRGLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWD RRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPFTYKGSVYFTCT HIHSLSPWCATRAVYNGQWKY CQSEDYPRCIFPFIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVSDCMEDESNKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHRRRASTRHSRPP PADPDGGERPRTADDRQDDA TEDDGTRCRGRQTRTQATNAN ANHKKSNRTKPPPRHKPNKAK RHTKKETPQNT/CGTQDKNPDS GRPCLFRRACITSTGTRGELWT RSREHPAK\QGRSGKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFDTNGDGEITLVEL QQAMQRLGERLTPREISEVVR EADVNGDGTVDVEGDIDGAWG RHGTQGPFWPWGLGDVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHSPPGSPN\ PCPPHFKNQSMPSKSPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILIFNNHGKP RLSKFYQPYSEDQQQIIFRETFH LVSKRDENVCNFLEGG/LVFVE TLDKCFENVCELDFHVDKVVH NILAEMVMGGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGSRARPRPGPQCPPGRPGTAM IKAILIFNNHGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEK WNFLKGGLLIGSDNKLDIRH YATVYFVF\GGDFSKRELGLN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRPGPQCP PGRPGTAMIKAILIFNNHGKPRL SKFYQPYSED TQQIIRETFHLV SKRDENV CNFLEGGLLIGGSDN K\LIYRHYATLYFVFCVDSSE\S ELGILDLIQVFV\ETLDKCFGNV\ CEL\DLIFHV\DKV\HNIL\AEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA\RA\VSAV KNMNLPAEIPRNINIG\DISIKVP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE\ EEEEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EREEEGEGEEEEEEEE EEEEEEEEEEEEEEEEEEEEVVVL LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVIFYQKESHS WKQQKQDLMSGKRLSAANPLP ALLLPVLWTTGQAPSPGGDP ILQLWDDAQQMAGSPRTKKKG CTRNSQAARLSFQSRGGQGS LTKMIFEQRFGGGKGESRKDAIA IIVVDIVTLQPCRTVEWVPTRPF RSLQGHFQGGGLRRQMMVME GVWVLSCAMDLTSPRDCLPFC VSLPVLLLSAPLCSCTAGGSPV TSPHHFPVEGGGLGRVRRCYINE PVVTTLGWESVCWVSFWLLLR IRYSTSGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLLVQAAFQLS EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFLLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEAATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQERKINFPGPSPGFPKRQNK T LSRREKKEEEEKEEEEEEEEE E GEEEEKEEEEEKEEEEEEEEE E GGEEEEEEEEEEEEEEEEEEEE E KWL YQYDPEDKAQSKQWLSR E GGSGPVKAKADWWRAKEIHS L QPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLPVA AV LA/AGSGGLAVASCAFTICAL R WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDRPKEHLINFKSG ACYTCRKSGH*AKECLQPGIPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREED P PTTSGPQTNQPKHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQ/GLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDG WGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSSRGSDV PFLAPPSLPC HSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRTGGGASLTAQAPGT PRRPQEGEPVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGA WNTRVSA AVISSQA QLLSSILVNSRRLSFS AHHTAFG TVALGEYAFRMFRLSARLFG\E VT\RP TNS/RSLMKVVKLFSE/IW PLAKKKETYDW\YPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVGKGGNP KEREKGKRAAKKGNSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARCSGAGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIQQIHQGAFLLAGSASLS AVTGVPEGEARFTEDYCPEEK MFGFHKPKMYRSIEGCICISGA KSSSRFTDSKRYEK\DFQ\SCFG LHETRSGD\CNACVLLVKRWK KLPA GSKK\NWNHVVDARAGP S\KTTFE PK\KV KTLSG\NRIK\S TQISKLQKEFK\RSNSDAHSTTS SASPAQSPCYSNQSDDGSDTEM ASGSNRTPVFSFLDLTYWKRQK ICCGIYKGRFGEVLIDTHLFKP CCSNKAAA EKPEEQGPELPIS TQEWTECPDLSLVVSWRPPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSQTLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRGS/ ARAPAGWRLGSPGAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSPGVQQRKRR RRKVWLGPQDLPGPSALADK GPALAKADGQRVNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLPPPPPSGASFLQR GRPVTPALFQAGWGRAADRP PADLAGGAGGRSGRRMLPRS PGAALRDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAPLDFGNEAVEQCHTMSDR KAVIKNADMSEDMQQDAVDC A\TQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNF\GSY\V PHTEDKHFIYFYLQGQVAIL\LFK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGGQRRGSPPAVL ALAPASCPRRMSYLPNPPGSI LICWLGVSLSHRSAGGGSAYI G\SYYPEEKMFFVHFKPKMYRSI EGYCICRAKSSSRFTDSKRYEK DFQSCFGLHETRSGDICNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTVPVFSF LDLTYWKRQKICCGINYKGRF GEVLIDTHPFKPCCSNKKA KPEEQGPEPLPISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMYRSIEGC\CISGAKSSSRFT DSKRYEK\DFQ\SCFGLHETR\SG D\CNACVLLVKRWKKLPAGSK K\NWNHVVDARAGPSLKTTLK PKKVKT\SGNRK\STQISKLQK \ENFKR\HNS\DAHSTHPQVPSP\ AQSP\FTVNQFRWTGSDTGVG FPGSNRNHPVFSFLDL\TYWKR QKICCGINYKGRFGEVLIDTHLF KPCCSNKKA\AAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRS AVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSLS PQA HAGPHTRLHPRQGHAMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESRTET DLSFKKGERLQIVNNTKGDW WLAHSLSTGQTGYIPSNYVAPS DSIQAEWYFGKITRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYSMSHCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQGC FGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLQEAQV MKKLRHEKLVQLYAVVSEEP YIVTEYMSKGSLLDFLKGETGK YLRLPQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFLARLIEDNEYTAR QGAKFPIKWTAPAAALYGRFTI KSDVWSFGILLTELTTKGRVPY PGMVNREVLDQVERGYRMPCP PECPESLHDLMCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQRRRKQPPRPADFK LQVIIIISRGV GKTSLMERFTDD TFCEACKSTVGVD FKIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKG MILVYDITK KETFDD LPKWMKMIDKYA/SEDADLLL VGNKLDCE TDREITRQQGEKFA QQITGMRFC EASAKDNFNVDEI FLKLVD DILKKMPLDILRNELS NSILSLQPEPEIPPELPPRPHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGYWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNEKF GL\DFPNLPYLIDGAHKMHPEA TPFLCY\ARKHNLLGETGRRE KISSWDIL\ENQAMDVS VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPFVGDKITFVD FLAYDVLDLHRIFEPNCLDAFP NLKDFISRFEVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGYWDIR GLAHAIRLLLEYTD\SSYEKKY TMGDAPDYDRSQWLNEKF GL\DFPNLPYLIDGAHKITQSNA ILRY\ARK\HNLCGGDRRREKIS CWDILENQVM\DNHME YDPDFEKLKPKYLEELPEKLKL YSEFLGKRPCFLG\DKITFVDFL VY\DVLETK\QVFEPK\CLDAF\Q NLKDFISRFEGLAEKISAYMKSS\ RFL\QELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLPPQVKLE*RYHR LALFSFPTKKLTPEKVSLCCRFL EMGYIF
23782	54150	A	23920	62	255	VRLLTAQKSLGPLTSTHSLWGSA \RARHREPVGSVCGCDPCEQLL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKLPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKQGG VCGCDPCEQLLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKV VDNQAGTQGG\LPVVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNGLC\SLVLGSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKLE VCLLNAENKVVDNQAGTQGG KGRPDGAQAV/VGAHTWRFGC RRCG*LHRSHWGL*LLHTPCGR PHCARHREPVAHSLCSRAISGS EPHFWQCSVQ*PQLCVPGRVAT PLGELDSGDGDCSHQSLGPLPA CDLWDQLHLRSRQGGSVCGCD PCEQLLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TIFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLLL\VSQQLAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWLCGLFLLFYIDFLTLMCGDKPLICKKHQLSASTCA/CTIC*GALTLLMEIEQGPCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDSRNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQQLRAPG\VDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDSRNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCFTPKALDPLACDLWDQL\HLRSRQGGSVCGCDPCEQLLLLVSQQLRAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKVVDAAARKHG\VKLTTVLTTHHHWDHAGGNEKLVKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRGCSRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKVVDAAARKHG\VKLTTVLTTHHHWDHAGGNEKLVKLESLKVYGGDDRIGALTHKITHLSTLQVG\SLNVKCLATP\CHTSGHICYFVSKLGG\SEPFVVFTGDTLFAAGCGEVLMMKGLRDEMCKALLEVLGRLPPDTVGSASLRAGRVYCG\HEYTIKQTSKFAR\HVGNA\AIREK\LPWA\KEKYSIGEP TVPSTLAE\EFTYNP\FIKVRREERCKQH\AGETDPVTTMRPVRREKDQ\FK\MPRDLRPLHLQQDLGIKALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFC/VIRDK YRYFACLMRARSEEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYKVPE WCLDDWHPSEKAMYPDYFAK RKQWKKLRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACSRYSKTPGP RDSCWEVQSDNQCWWWLD SG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCSVTRSRAVSRLSARP GKVSAMASLASGPYLTHQK VLRLYKRALRHLESWCVQRDK YRYFACLMRARFEEHKNEQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSWPWHPPYERY\DCYK VPAEWCLDDWHPSEK\AMYPD YFAKREQWKKLRRESWERE\KQL QEET\PPGGSF*LEALPPGP KRKVILPPLWW\YIVTRP\RRP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIQRD AERIFFALDQASCGFTIHPIDA AETPRGLTMHLCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGKHLCD STASSLLPRRRESNSDDTARED ARQKRPANTDMRTQELQTRET GGGTARETEVATPLSGPSAGDS PPAASEMSCGQLVLALLLFFL LVWNTGTKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTAPSRRVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRPCTGRERSGVEACKAAV HNLL\AQTGSSGLIINYPLDD\Q DAIAVEAACTNVPALFLDVSDQ TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSAHAHRLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLA PALSQQAHG GELPLPAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCRLIGPWAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSALSC RLIGPWAIGMWETGFLLSSVS LS
23805	54173	A	23943	450	1260	LCACVVGGEKRSRGPRI GCAGA GKDPFWRAVGVAQKAAAVVA CGAASPYRNRADVSVDHSQS RGPGLSLSGGTVCMDMGKTK RTADSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEHN TWEPEKNL\DCPELISEFMKKY KKMKEGGN\NKVREKSESSKR KSNFSDSAEDIKCKKKREQSND IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLVLAKE ANVKCPQIVIAFYERLTWHAF\ PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*A WPLTPQPAYW YGPSSCQGCYRCFLES LTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQGV PGRG F*VGKGAESLFLHFPQLIRFLN DP\EHSLTLEELNVVEQVRVQV SDPESTVAVAFPTISHWSMG T
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG G LLENANPLIYQRFGE R PVTAG EEDEQVPDSIDAREVF\DLIRSH QMTPEHP\LTLEELNV\VEQVR\ VQVSDP\ESTVAVGF PKPTHSGT CRHGPPLIGL\IKVK\LLRSLPS AFSRWDVAHLLPGDPLPQEHA VEQATLQIKEAGWATALGRTH HLLVVN\QCLSSAPGTWAFV
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSILLGTPWEAWAG RILYSVSEETDKGSFVGDIKDL GLEPRELAERGVRIISRGRTQLF ALNQRSGSLVTAGRIDREEICA QSARCLVNFNLMEDKMNLYPI DVEIIDINDNVPRFLTTEEINVKI MENTAPGVRFPPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSG DDETKYPELVLERVLDREEERV HHLVLTASDGGDPPRSSTAHIQ VTVDVNDHTPVFSLPQYQVT VPENVPGTRLLTVHAIDLDEG VNGEVITYSFRKITPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGLTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLDQRDSGKNGE VTCTIPENLPFKLEKSIDNYRRL K\TTKNLDRETLSLYNITLKATD GGTPPLSRETHIFMQVADTNDN PPTFPHSSYSVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFDYEQRLRELQLRVTAHDS GDPPLSSNMSLSLFVLDQNDNP PEILYPALPTDGSTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPEVLADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIKTAK IEDETQVSRATQGEQDNYEMH VRAANIVRAGESLMKLVSDLK QFLIL\NDFPSVNEAIDQRNQQL RTLQEECDRKLITLRDEISIDLY ELEEEYYSSSPGPSLVSQQLSEQ QLLSSAWTAWPKVTLSSLAPGP QYSVNGPAAIIAHPGTCASAGIS SSLLPEPVLLVPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMGSGAG ELGRAERLPELFLFLLTLFCPAL CEQIRYRIPEEMPKGSVVGNLA TDLGFSVQELPTRKLRSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLTLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNTYKLV TDAVLDRQNPEYNITVTATDR GKPPLSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNPPGASISQ VRASDPDLGPNQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRL VAVRDGGQPPLSATATLHLVF ADSLQEVLPDITDRPDPSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPFSSFFPSFPTF* NILCLFVYLEVEFPSCCPGWSN NWAKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGK VWLG LRGAAPMASVLSYESLVHAVA GAVGSVTAMTVVFPLDTASIF DFSVDFAKRKSKTTHMVVLEHK EEGLLAPYRGWFPVISSLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVG FVAGVVNVLLTTP WVVNTRLKLQGAQFRNEDIVP TNYKGIIAFHQIIRDEGISALW NGTFPSLLL VFNPAIQFMFYEGL KRQLLTFAFQLSSLDVFIIGAVA KAIATTVTYPLQTVPLFPQFGR HRLNPENRTLGLSLRNILYLLQI FRTPSEREPFYTSVTL SVLSSVA YPM MPLSNITSA YRIGVLEKGG GSGKSDNSDDDDNDNDGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLTHSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE AEEERVVDNRMHDFCELRTA AGHPVEGGRPLVIKITHPAET ALQRFKFLMYQVVASDL DGT LSPDHTLSPYAKETLKL TARGI NFVFATGRHHVDVGQIRDNLEI KSYMITSNGARVHDL DGNLIFA HNLDRDIASDLFGVVNDNPDIT NVYRDDEWFMNRHRPEEMRFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGGTSAETNLKT VKLASAHYYDELPTEGNEHGQ GSAMSSWNRNCWKRPNSVLA RSLAVNTSRTTFALSVCHVTAH PARSAWASPVR
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLTHSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE S\EEERVVDNRMHDFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSAAQTTCLPGPKQKGDPTRH QPVDKRNDVGPRQHFWCWRV EIHKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQEIEPEQWLVAVWG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSEL TIVPPGGRTA TNALSCGSLFGEETSPRGPSADS TSQSIGGGSPHDCAKGIALVAA NGGDIRDYEGVDRSAKPLPMI AINTTAGTASEMTRFCITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIAATPITDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFTPIAAAQSRRAAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCDFIDYLGGETVV ALNTPRADDYHPVMVLC AKTD KAHRNVIHTSKLCFILTPEISQ RSHGKSSKRVFSCFPVFLLLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGQGRSGRLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCD\AIALTAPMFGIV IRMPSPFARQILNWAEAHPRFR DGYAIGTGRWRALPFAINVLTH SRQRYRRNLRFYADDPTIRVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSLP*ATSTSVLAA SGRPERTR\HAGIKIVLEDIFTL WRQVETKVR AKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDVSHNLLRALDVGLLA NLSALAELDISNNKISTLEEGIF ANL FNLSEINLSGNPFECDCGL AWLPRWAEQQVRV/AAARGS HVCWAWLPGW PASAWHPLAG QWLW*GVCRLPP*QQLRHRGS SVLFSCPRRPA/CSQRPAAPSAS PPARASQPSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGQLTK ELQQHVKSVTCPCEYLRKVINT LADHRHRGTDFGGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDIFTLWRQVET KVRAKICKMKVTTKVNHRDKI NGKRKTAKEHLRKL SMKEREH GEKERQVSEAEENGKLD MKEI HTY/MITPSARKPLCNRVRMAA AEHRHSSGLPYWPYLT AETL
23830	54198	A	23968	111	216	ALLFPISTWSTPLGTQQAPQCV* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSHRSPPRCPPSRAPAPRRSAAA PPRR*PPRAPAAPRP GPP/CMAR PPPARPTAGSRVPPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDFGGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDFGGSPWLLIITVF LRSYKFAISLCTTYLCV SFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVL AEDIFTLWRQVE TKVRAKIRKMKVTTK\ ATRLTK IKERRKTAQDHWRLKLSMKERE HREEERQVSEAEENGKLD MKEI HTYMEMFQRAQALR\RAED\Y YRCKITPSARKPLCNRVRMAAA EHRHSSGLPYWPYLT AETLKNR MGHQPPPPTQQHSIIDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPSADDNLKT PPEC LLTPLPSAPPSADDNLKT PPKC VCSLPFHPQRMII SRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFPGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNSGLLITLVADLQLIDFEGK KDVAQIFNNILRRQIGTRTPTV EYICTQ\QN\LFMLLKGYESPÆI ALN\CGIMLRECIRHEPLGKIIL WSEQFYDFFRYVEMSTFDIASD A\FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYEKLLHSENYVTKR QSLKLLGELLDDRHNFTIMTKY ISKPVNLK\LMMNLLRDKSRNI QFEAFHVFKA\FVANPNKTQPIL DILLKNQAKLIEFLSKFQND RTE DEQFNDEKTYLVKQIRDLKRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSESDMDETIDVGSENNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIEKR\RRDRINNSLSELR RLVPTAFEKQGS AKLEKAEILQ MTVDHLKMLQATGGKGYFD\A HALAMDFMSIGFRECLTEAAR YLSSVEGLDSSDPLRVRLVSHL STCATQREAAAMTSSMAHHHH PLHPHHWAAAFHHLPAALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADSALRMPST GSVAPCVPLLSTSLLSATVH AAAATATAAAHSFPLSFAGAFP MLPPNAAA AVAAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSSPLTDRHCHTS SQFSHRFNAISPPPAELGCDHV ASAAADPLGVPGVATQWAGGL SAALAAPRRPHSCRRQLQVLGAL GILKSAGRVNFRFCGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQQRKRMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTQALQVVRNART PPCIPNLD RPPEACSSGSTGGM MPLRVAPSPVASGESSHLSSGR GDRGLVRCKVEELRFQPVAFPE FIPPPTSPRADSESGDWCTVLA NPSKTGSGGWEQRKTECPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPA AERRTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKKSTFAFPGI HSGAVCSKRRICGVQGEFPLPF ASQCSSLKILPSPGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSQLRRPAFGVRVALEESKGLI RKDSCRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVWAWQWSATRSPSDSCFP VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYPEDDLKK RRVPQAKPVAVEEKVKEQLEA A\SPPEVIEVDLANLAPRKPDW DLKRDVAKKLEKLLKRTQRAI GRLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPQEQDQ DRRKDWGHVELLEVLQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPPNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKTTLKTLRDQWE KALCRELRETKNRRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGPVGWPGAACVMSALC WGRGAAGLKRALRPCGRPLP GKEGTAGGVCGPRRSSASPQE QDQDRRKDWGHVELLEVLQA RVRQLQAESVSEVVNRVDVA RLPECGSGDGSQPVRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQ\MG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPEIIDMVKEEVVAKPR GRGGLQQKQKQGRGMGGAG RVGSPLSSG\VPAGARQPHVAS LLLGVALAALPRRLPNLPGPPS CPLAMNRGPGRGAPRHGTQPSS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRPLATTLGTLRGS IQSQGRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGKLITCSPSP QDGDKFWRMPECYIRGSTIKYL RIPDEIIDMVKEE\VVAKGR\GR EGPCQQAESQK/GVRGMGGA\ GRCVFGGRGRGMGSPITG\ARCH PDKKPRQAGQTVSAHPDRLL RPLLARVGDFRSTVSERNLLQK GRGRPPRGEPFRVLVTPSLFKV KAPFFLPKNRQILVRKCLCCF FGFCETGPSQKLGNPLERVLC LKAIFSSPFASGFSRASHFPRRG LFLHFLGSLSEASNQTGRFLILK
23845	54213	A	23983	1	326	PVSLECYTPPEDNLALLQLYF RTLVTGA/LRPRWCPVLYAVTL WPHVNSFIFSQRPRIVIDIGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGSRLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIVIHPTPYVCIYI PTLPLSTSFPLSQLPVSLECYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFIFSQ DPQSSVSYISIFRGRKGASN*AA SGPAGEEVSVKQGQWWVPAL GSVPPLPVLLADEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPPVGSPVGAGPTPSLYKV PCATAMKLLRVLASAGRNIAA RLLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMRAL QVVPRELSTHPPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVWTQVSGLQPL VEPCLRQTLKLLSRPEMWRAV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLPL LLSQPTLGSLWDSL RHCSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSASPPFLTALLSLLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVAPGAAPHLTPFSA WALRHEYHLQYLALALAQKA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLLPMPTEPLL PTDWPFLPLIRLYHRASNTPSG\ LSPTDTMG\TAM\RVLQWVVLV ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLVAAAL LAQLCQPQVLPNLDCLGRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGEHVGALRALSLPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKPR*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCE HLLDHIADNQ/DFTGSAGAPSLE NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDEKVKYNEIV DTCLHKGSQDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLLL*IVPQ*T YVCMCLYSSMIYSPLGIYPVMG WLGQMVFLVLDPSGIATLTST MVELVYSPTNSVKVFLFLRLSS TCCFLTF
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPLES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHSCRRGRLTKH\KFM WDMIREVCGFAPYERHAMVLL KVSCKRALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQTNLSMLSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCP\RPTEAFIS ELLSQLKETPETQPASEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNWVTSIGWKSLEGSE EDRKSSQWGTLPSGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCKATGTEL LHALGAHPLHRLKQSHMMF QKVQVEPLRK\EPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP\PKAK AKVKAL\KAKKAVLKDVHSHK KKKD\ARKSPTFRG\PKTLCTR\KP PKCLQKTAPRKNKLDHCAITKF PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYDTDVA KNITKRWDVTSIITSCYIHLRLA SRLALEDLLAGLMNCLKGTFW NEESGERVETRPESRFKQQSKLI YTIKNPGRKKYGAEKRAFWC HTDLLLHDHDEQVNHFSPTSST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQ AWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLA TLFIWDNNESLRTGLLSVSTCK SGTRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGKKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPMS KEYRASPLSLSAALRSKDRQSR HRCVTSTFHIREVRCKSQGLP LCMHETAHICP*TEGQQKGS GLLYIP*TSPEIFSASESDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPGTGTSRRVRTATVE PTWKCRAAQPPPPP/PPLVWK LPPDSTTKPELQLEELDADSS WMLPHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTVSVTQLWLLVMA QTSYPHSLVGRKQVILHSSCLY SLDNKTSAGDDHDDDDHDDN DSSPAEKGPPPIITKSLDKADEQS HLRLAVLELGFYKPVNLLVA MTGCLLQMMKKEQCGTHGG EGSTLEGSRPDVPQDLFSPTLGF YGSTSLSADLGENVILKLYLPSF PLQESEPSAEHGENLWALYVGF EERRSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTAWTPPPPLTTGAPCTPPPR CTARGRT/PGDSHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNTTSLNSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSFPRQPSS AQMGHLLSTSLSTPPTTSNSETT QPAFATVTPSSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFQHLSSHSGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLAS GVKLQTVTPLHFSGNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGPPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLLSRLTYCWLEQDG RVSWRLGLEIGSLPTVPVRLCP ANRSPPMVCGTTGRSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESSLTPSTRG GHSEKAPSKNHQAATVNTTTL RISHISHTHLLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLPRRPQGCEDDAGGLQRQDC GQWREL VQLPTPP/VCPGGASP HPKPLPDLDPDPPGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCTQVLLEDSPKQS HRNSAPHLQPGIWSHIPGSHPW CLVLAAEGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVLFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFFL ESAQDSDVGTSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGSMMVSV SARDLDTGSNGEIAAYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDLFPILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPRLKTEHNITVLVSDV NDNAPFTQTSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLV SINTDNGHLF ALRSLDYEALQEFEFVRVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRA\A AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVLFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAALL ESAQSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKQVPENSPVGSMMVSV SARDLDTGSNGEIAAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDLPILKPSVEN FYTLVTEKPLDRERNTYINITIT VTDLGTPRLKTEHNITVLVSDV NDNAPFTQTSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPHLPLASLVSNADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLVSINTDNHGLF ALRSLDYEALQEFEFVRVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIYRKHFANPLSALFLQGGI ELFAAIAEIHITTVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVRVGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR LCRRSRAAPVGRCSVL

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23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIIISQRKDVTD RAKRQSEESIGKETVVIGIGLI SKDSAAAICESRWLSESHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLLLNEKLDREELCGPREPCV LPFQLLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQSDVGTNSLSNYT ISPNAVYFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGSM VVSVSARDLDTGSNGEIA YAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQTYTLTIQAKDGGGL SGKCTVVVDVTDINDNRPELLL SSLTSPIAENSPETVVAVFRIRD RDSGNGKTVCSIQDDVPFILK PSVENFYTLVTEKPLDRERNT YNITITVTDLGTPLKTEHNITV LVSDVNDNAPFTQTSYTLFVR ENNSPALPIGSVSATDRDSGTN AQVIYSLPSQDPLPLASLVSI NADNGHLFALRSLDYALQAF EFRVGATDRGSPALSSEALVRV LVLDANDNLAPFVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGDSGQNAWLSYQLLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAQAQAQAGDPAHLRL LTHGQPSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVASESYMIVAPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPFRCSGSEKELRRPVNSQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKAFSGFCYTQILEKAQTGKQP YE/AHERTHWKQNHDTQFGK AFSFSLSLCIHEKIHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLML SVHREDWKPVLINSIYGLQYL FLESKNRWLGLERLGFPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLFEQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGGRMIKLF LKQQKKEEESAGGTGSSKKA SAAQLR\IQKDINELNLPKTC DIS FSRSQTLLNFK\LVICPDEGFY KSGKFVFSFK\VGQGYPHDPPK VKCETMVYHPNIDLEGNV\CLN ILRGDWEASPLRLNSIYGLQY\ LFLAEPNPEDPLNKEAAEVLQ NRR/VCFEQNVQRSMRGGLHPA PPTFERCLKIGLAHTHPPRPQA LASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQQPTLFPNTLTQAQQ VQLTKGLRKWMVQHGGDGW VVEENRTTVPGAPSQTCFVTSF/ EVNAPAIQSWCCKQVLDLEE EGLWPELLDSGRIEIVSDWWG ARHDSGCMYRLLVQLLDANQT VLDFSAVPDPIQWEQQCLPF TFTHVFFQHRSRWGVRFCVFSEH RGPETHSSGAGPLLSPCEQLQC
23882	54250	A	24020	274	866	SLLNLPSSWDYGWVSYEQAN CKGEQVFEEKGEYAHWDWWT SSQRTDFSSLR/RPSKVDSQEPK V\YLYENPNFTGKKMEIIDDV PSFHA\HGYQEKVSSVWVRSG MWVG\YKYPGYRGLQYLLKKG DYKDSSNF\GARHPQV\QSVRCI HDMQGHQCGAFHPLGTQEEEE AGQKEQMEQVPFWLARGDICE LSGKKS VI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN* ADAPSSDTLFPDALLSNQAG RLACWLFSYGPQTKNDFHFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFGVMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPPSSGVCCGFVTLCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLDSEISN RALINWIPSVFLRGKAANAFH VYQQSIAGVSGIARKRALIPFGK STFSYVCITNIKLTALPSWDYT CHFNLPKAQKPGPTKILTME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRVFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAELI NIYLQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSSPTITIINHPSPL/LSHASPS P/CHPSPPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIIRPSSITI INHPSQASSIHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNKK VIQMVPPSSLPAPKKETLIQLM PLLSTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLS FIPGGFLGMTLFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQLIFAGKQL EDGGT LSDYNIQESTLHLVLR LRGGMKIFVKLTGKTITLEVE PSDTIENVKAKIQDEEGIPPDQQ RLIFAGKKLEDGRTLSEAFILDV GLLLSCRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLAWPEGR LALLGELVCVP VVGRGMENGRILVSADRSGGHI CLKTLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQLIFAG KQLEDGRTLSDYNIQESTLH LVLRRLRGAGMQIFP*RP*PAKTI TLEVPESSHHRKF*RARFQGKE GIPPDQQLIFAGKQLAEDGRT LSDYNIQESTLHLVLRRLRGGM QIFVKLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQLIFAG KQLEDGRTLSDYNIQESTLHL VLRRLRGGC*FFSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRPCPRHPGARRTAATTR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPQTTPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRPAKS SFLTAQACEAQKTGSATRRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRAVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTL SLLVLPPEKKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDLILLISKSY*APLPSD FSHSDTSS*KPSKSLKTPSPFF SAKTSLLQCPRNLY
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSCSS PKMAETPEAGFQIVHSASPQPG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFQQA WPPHPRAK LGVSRL
23899	54267	A	24037	164	323	GQEIKTILANMVIPRLY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQRLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHLGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG\KPAERV YGDANHTVGNMCASRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGQPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQTPDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRPAIDILGTLE SGHSRNLTCSPWACKQGTPP MISWIGASVSSPGPTTARSSVLT \\LLPQSPQDHGTS\\LTCQCTLP TGVTTTSTVRLDEAYPA\\WNLT MTVFQGEGTASTTLRNGSALS LEGQSLHLVCAVDSNPPARLS WTWGS\\LTLSPSQSSNLGVLELP RVHVKDEGEFTCRAQNPLGSQ HISL\\SLQNEYTGKMRPISGV MLGAFGGAGATALGFLSFCIIF VGVRSCRKKTARPTMG\\VGDT GMEDT\\NAV\\RGS\\ISQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPQRHQHRSVFPKANSS WIHQLFPQ\\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTHQLHRVHQRRIPSAQH RHRLHQRRLP\\SAQHQRHRDSIS VCFPFRAHTRPHCD\\SIQRQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLCSRHPVNLRET LGNAAHAVFPRGNQKKPEMCP YLPTHKL\\VPTPLIPLEAALRN IAHSRSIPPPKKFSPTPDTSDDY LVFNSFPYSKLTPKTGGQENL GSTRPIPCNGPPTRGPHNGAKY PGDVSHPVGVGT\\LWANRL\\LTG QYEENGKSFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLELRPRLS D
23913	54281	A	24051	146	456	LKNHKRSEKPCPTLTDDIPPQK KCKWPVLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAEQM SFD\LIFLYLPKSYKVAPPLSSFT ESLFGLSPPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTENQTVQLTW EWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSPLRSYPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTLRRLVNS VMRLKKSFMVQRMVSIKPV WSISLGFLLSFVPSVWDPT/ENR TVQLT*HPLPELELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSKGESKS LGPEFQGLWEWLPEIYFSQFRR LGPNKSRHQIQCLMGACFVV TERLSFQDSLDAEPRHSYPLQ VKRLDLPTVLETETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPPEL*EINFWQPLPELE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFQRCQTTQGR LPWSFTLSGKSHFSGGVARACY TCQKSGHWA\RNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDLDD PVGFSGSIKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSDRDRRTIALQPGQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWVNPPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCRKS GHWAKECPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPELELWPRLS
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFLS RADFARSQVLVDLLTDPFQ\QEL EELLQVGAVTLILRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRLGPQY FQTPHNPSGPGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVRRREVVALRRGLACIPSLG VWRFPSVGVLA VSDRWCLAVS DRWCLARATLSCFGCAMPYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMLRKLPKVT CRDVLPEIRAICIEEIGCWMQSY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLILILKNMEGVL MDVDCESVPIV*ASN*GLASA VGEFLYWKLFYPECEIRTMGGR EQRQSPGAQRFFQLLL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23952	54320	A	24090	1	812	MARTPGAELAVAKYPPKGSQA VHRHSRKQSEPPANDIFNAAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLELFTGRFKDW MVSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVYPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLLSFFVESKLHDHAA YLVNDLWDCAGTQLKDWGL TSLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPLALDT QCWFPVEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPLHWCVSGYLSLPLPNPKP HFSNPLLLQVILPALTLVYFSIL WTLTHISKSDASPGECGS*MG* WEQRNLCPSILPLQSPCLPTEAA VEFEGTRMVAFCCLCQSCLS VDTEIP/ESR*VLAQSGRKKAEY PCPPFPRRN*QCHYLPWETFCPF KHPPFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPE\ATLQ \SELASFLMDHVFIQGRPGQW CSDSIPGAQ*GLGLGCSSKI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRLLAGFCKLLLYGV LEMDAASDVFKHYNKVHQGPS LGFTKPLVMPRFSAA TV
23954	54322	A	24092	37	625	SLMLLTPFHFPPEECPPIPTAH HLLPFLSTWELFLQQLQEVVV KHAEPVLEAGAHAL\YLLCNP EFTFFSRADFARSQ/V*DLLTD\ RFQQ\ELEELLQGRELGAGTMG DTPNKGWGGGCKTGGMWDL MSSGGKCYCGIFFSFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCGVGSLSCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTRL KTYHGRGAPLRVELPTCMYRL SNVQGRSGGPAPGVGHLQSLV DEWLDSYKQDQ\DAGFL\ELVN FFI*S\CGM*RNSGDYPLTAPGL SWKKFQGSFCEVGTLCRCQ YILLHDDFPMNDNISLLTGFS QVCAF\RHTSTLAAMKLMTSLV RVALQLSLHQDINQRQYEAER NKGPGQRAPERLESLEKHKEL H*YQAKNLSRARCASTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKIILVGFEGSKARVQT DLFYRSLVLFLLQLICFPLSCFG NWKGEEGGMQRWVLGKNEKI ASPHRLPAPTARFAVSLQLNLRI LGAFQFGPVLFVLWRPLDRDN ASPOSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTLSFS PRHSHVFSTSRFCILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPQQVAGVCETLEESGDV ERLGRFLWSLPVAPAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVRKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLQDPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPWA EAFRPECGSRLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEMLQQQ VLSQSGRALRAEGDGTPEVL GVATSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPQQV AGVCETLEESGDVERLGRFLWS LPVAPAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEAEL KLRGRPLGPVDKYRVRKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLQDPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAK\NRLQQQVLSQSGRALR AEGDGTPEVLGVATSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAWRSVRLLGPGAGL RGGVVLKVSPSPCRGGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVIL\GPPGLGKGAPVCQRIAQN FGLQ\HLS\SGHFLRENIKA\STE VGEMAKQVYREKVFLVPDHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDK\ICEVDLVIR LNISFETLKDGLN\RRWIHP\PSG \RVYNL\DFNPPHVHGIDVTGE PLVQQEDDKP\EA VAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTET\NKIWPYVYTLFSNKITPI QSKESILTLAQWEEPGRCSFIP IVWCSNWCCCPNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPEINPLSSCSLL PEKDPMTSGPQTDQPKHELTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGMPAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPEINPLSSCSLLR EKDPPTSGPQTHQPKHELTNF KSDHHGCRASGNSHSGRMILLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	QKRSIPNSSPIP*SHSLLANCTK/ DHHFLNGSKSFQPQLSCKFS* GQHLLFQALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL\ CGRRFWRNAWPLRFRHLEVLV CWRCGCGLSHSGGKELQLFSII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPEINPLSSCSL LCEKDPPTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFSFQS WRYTSISPF
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPFK AYKLSLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMPGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSLCDSRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCCLCYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMDEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNLWKQVTSS FLCSPLPLSLLKSKLLANRDKY RMC GPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFSGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGDSDDSRT

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23983	54351	A	24121	2	2204	IDMIFTGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDVPNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDFT ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNECDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFLCPNPFSTFLE GKNHHPHPFSVSQVFSGLPSP LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLIVS PALRSISRRLAAFPGRSLDLQ PAMPEPPTPS/CGLLCVPS\PPMS AAPCSKVPQSHLFAFMSCNTAK VCSFTAEESETTSPPGGTNNSR RATLRAVTLTRRSATLTRRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQI\ADLPWEINPLSSCSLL HEKDPPTSSGPQTDQPKHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQDLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPEINPLSSCSLL HEKDPPTTSGPQTNQPKELLTN FKSVPTPSVAESFQSSFSTDPSD PSSPPQAAPRQAKPGPNSSSASA PRPYNPFITSPHTWSGLQFHSA TSPPPPAQFPLKKVAQVKGT KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLVKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGADLPWEINPLSSCSLLRE KDPPTTSGPQTHQPKHELTNFK SDKGDMFYPTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/RGDLPEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNFLLSILAPHFNLSLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSSR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRATFCYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTEPFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVMIKFRA FVKEGAVIVIRFDNKEVAFAQM SGNLTVPRSTSDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLLVYPLS KLCNSPKKCQLESVFRLTQWV VKKPISNRQSGLGIVLPGLFRV LSPGNLSPIKGTIVLPNEVQPGF LGNLVGPI/RGWIGLS*ITYLPHGF TG*QNSAGLADH*RASASPRA GVYPIHNERCAHRASRY*KW HPDSVAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMIIVPGSQLSQ LPPGLDSTEFAAIVGNLLDNAF EASLRSDEGNKIVELFLSDEGD DVVIEVADQGCQVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHELV QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQQRKHM LKSIESATQKQ IDEMFNAYARGEPKDELPTGID PLTLNAVRLKFKEPGVQHTAET VAQALTISRRTTARRYLEYCASR HLIIAEIVHGKVGRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAALLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVA AHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEKGLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQCLKMP GPAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACSTMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTLWS DRSMPWRRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWHH/HLSDSHSG\ RVSFLGAQLPPEVAAMARLLG DLDRSTFRKLL\KFVVSLLQGED CREAAA\VLGSAPTCCR\AAGC \LLAGMHTLLQQALRLPPTSLK PDTFRDPAPGALHPPRPGRGL\G QRGWE\PSGPSFDSVAQQARV AWLPHVA\DFR\WRVDVTIST\S AL\ARSLQ\PSVLM\QLKAFQNG SSIPAFEVPPQPKF\QEL\RYSV\A\ LV\LKEMADLEKK\CE\RN\LD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGPLGSGRCFVLIR FIL\QNRAGKTRLAKW\YMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVSGTFKILPPLCWPLL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSGQGKVYGLVGR* RFQQMDVLEGLNLLITI*RNRN KLRYVYLTWLRKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGPLSQTPP MHRPVEPQEGPHKSLVAHRVP LKPYAAPVPRS\QSLQDQPTRN LAAFPASHDPDPAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLILSQKSHFWPQPLSSVLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLES*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHLGLAGLPTQLQQGRL WGYRNPASPFRTRVAARDCA KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKQGNLQVPGSKVLPGLG EGCKEMWLRKVYGGGEVWGK SPEPEFPSLVNLCQSWKINNLM STVHSDEAGMLS YFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNTLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAAITNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVNK WVKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLE\DG ARTETAELRALAKE\LEQELD RLTQHHRHLPQKASQTCSSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTDNEKRGG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGL WPEQL AGWSCWHLKWTGGSRSGLPVP VLDAACTGTLSPDLTSWRYHPS SIPLPKQPLQHGF
24014	54382	A	24152	3	515	VGTQAGAAPGPVQFLSSAWVA L\HETELPPLTAREAKQIRRE\MS R\SSKWVDM LGDWEKYKSSRK LIDRAYKGMPMNIRGPMWSVL LNTEEMKLKNPGRVYQVRSARA QPTGQAVSGAQVSSWRERQDH PGELGVKIMKEKGKRSSEHIQQ MDLDVSGTLRRHIFFRDRYGT
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHIDLDVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVG YCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQQLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPGVNLSC ILNEMRDQDKKLVEKSYKDAK GCFFSMGEP SLIDPCLEV CYGT QLAQLQGLIRSMEEQQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQGGPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGIHKRF CGLKGFLPER HNPGQLIHQNQSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHIHIPGIDHHR LFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQLIGHKYQRSHRSL*AEPE* LECHQPD LAEPADGPPLTTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFFLSACGNLIPSG GIRVPMENML/RVFR AVEEHCP WFPEKGTLSVEQWDSVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLPQLSSPTGPSLS DQPLPSPTPPPPDDVENSISNSG DFGLTLPPGDLILFPEEPLLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPPVSVQPVTLP TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETT CNVF NYPLKKPTGRELREAKNKG SQP KVHEKTNPGNIRCISTEERPHEN KGFNHLLEWLAE LKTTIHLLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGAAK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVG VYLLPGRVGCVSSRVSPSPG DGLDSSLARRGS AVSALASGL VEE PMLGPPFHPTPRFKAVSA KSKE DLVSQGFTEFTIEDFHNT FMDLI EQVEKQTSVADMLASFND QST SDYLVVYLRLLTSGVYLQ RESQ VLRALHRRVDGTVQRSSA KQE VEPMKESDHSHHCAGPGPS ACPSRVGVHGTAAARAAPP IRTS F/H*GVSPKVVLLYRPG HYDI LYKLGSSPLGCPGCP LLARA LGHCYRGFSVVVNGP ISPPSSCH MTPPPCFIKG GAGGEP CVRVPA LLPAWLL CCLPPPRWVPLLF YLLSFP NRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCKLMAAEEPQQ QN QYPLGSDSEGVNCLAYD EAIM AQQDRIQQEIAVQNPL VSERLE LSVLYKEYAEDDNI YQQKIQD LHKKYFVHPQDQ GLTGTCFYS GFRDSPTWEG TCWIDSKELQRF QGLVS/SQ RSKGKTLVSQGLSL EFHNF EGFSTTTFI/VDLIEQVEK ADLCRRPCLASFNDQSTSD\YL VVYLRLLT/SRAYLQRESK FFEH FNEGGRTVKE\FCQ QE\VEPMW QGEATTSTSLA LAQALS VSIQV EYMDRGE GGTTNPHIFEGSEP KVVLL YRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTHLIFD MDG LLLDTERLYSVVFQD\CH RYD KKYSWDVKSLVMGKKA LEAA QHIDVLQLPMSKEEL VEESQTK LKEVFPTAALMP GAEKLIHLR KHGIPFALAT SSGSASFDMKTS RHKEFF SLFSHIVLGDDPEVQH GKPDPDFLACAKRFSP PPAME KCLVFEDAPNGV EAAALAAGMQ VVMVPDGN LSRDLTTKATLV LNSLQD FQPELFGLP SYELEGRA SVFRPQPTLMVHTAGGK GKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNC PEPPPDH LLQAAWGCVSL GQGLSYSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHS LTGKTDS LWQQDTKLQTRPKATQKGES GGCGPHRPLLLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGF GAKAAVDGQGRDRTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPEPTGRPGSRQFQAAPP PSHHSRPAHAPFGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRTLIVLGMSCLSYYPK*MHLT HLIHCS*EARS LVTLHIPLTICG EPRNIKL VGCP*IQWKK**KKI MNSRILSPSFRSRY*TSNLLGLP *LRGLSPVERELKLWTRNHKLL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPISIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSLVTL*TLHLEPAGT*VLTP GSTTGITVSGTVLFLILLSCFLSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIAKRPAIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTRCCMQLTSDRHRH TALNHTTCSHHCNSGV MAGRL GPITVLSGDIGPKGMRALTMW HTLARPTGDLEAPRHGRPRRIT ATQPDHAPPATSRNRAAHPHN HTP/PHPQTAH/PTATHSHLTyr TPRPTPATRTPL/HPHSHQQYPY Q/PTQRSPYLHPPPAPPHISLHPS TTRATVNAPDTRPTIYARESVPF GRLLNLGRQRMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGFLSFKLGE YEGLGPLAALTAGKGLFFLPLE SRLRLHRRPKPRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLF GHPTHMRCSWRGLFQD DLGLQKPLSGGSSSAYRGCENL NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRKEGIPVLALS/L RPSP/RVLHTATKQKNSCQHLE EDVD\QTKWRTDTPSMDKILME EVKLEEQLKEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSSEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLLRVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDEESEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPQAEILP VVGPFMRMRCLTVDPPGLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEGKTAASPOYSEPESEPLE AKQGPETGRQSRSSRPWSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSPLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQQSQQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAPGGS EVAPSMLEITIQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIFENISQDVKMAHFSKK FDALQENENLLPTYEIAEKQKA LFLQGHLEGVDQELEDEIAENA LPNVMESAFYFEQAGVGLGTD ETRYIFLALKQLTDTHPIQRCRF WGKILGLEMNYIVAEVEFREGE DEEEVEEDVAEERDNGESEAH EDEEDELPKSFYKAPQAIPKEES RTGANKYVYFVCNEPGRPWVK LPPVIPAQIVIARKIKKFFTGRLD APIISYPPFPGNESNYLRAQIARI SAGTHVSPLGFYQFEEEEEEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNWWHHVQHLSQGRC NWFNSIQKNEEEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAI AVLQS NLWPGAYAFSNGKKFENFYIG WGHKYSPDNYTPPVPPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAVLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRRGV KEVFMVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPHRLQGLVTVAAP* NLDGYQKVHNSFLIRKLSLPSV WVREIASGLLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPPISSPEDLLRSGEC STAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGQWLG GSEHAAAAPGPSDHPRGRCRH HTILQRPRLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPPP WAPVRPEPPR*APPPAPRRPVPS TTQGS LGPHCFYEL *HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL *HSP *RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHPVPSTTQGLRSVGARRGT GRQLHLQSRCGIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAAPTQHPV PSTTQGPLGSPSTLRKL*SFALC NKSCCSLFGSTLPL*AVTLTA KVCSFTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSGCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDSGAQLAS PSGSGTGAAGGAACQSRTVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAAKARRAIEHST GGLALLGDPVHSPQPLARVLSP SLPRASRAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMPY GK*NVQKRL KTTKNGSM*LKSHILSTPEQ\PA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVSTTQGLRSAGARRGT GRQLHLQPLCGIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPWVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGTLPSK*REMPY GK*NV QKRLKTTKNGSM*LKSHILSTP EQ\PASPTSS/PPLLQPAAPAPPL MPRPSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLRRRTWSCSLRAWSWDL IVPPGGLVVSLASGVKLQTFV SVTALKEARLDLFVPPGGLVVS LASGVKLQTFVSVTAHKSSV DPKNSGAQLASPSGSRRTETAGG AACQSRAVRSHSSALGWSMGL GAIEQGAALVRGGSGRTG\PM WVGSGMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPLPGASRACWL LRVRGPPSPRPPGTPAGPQAPH AAPVPARASPSTPPLVHLTNDV LRVKVKWAFFFTLHK
24056	54424	A	24194	192	818	SWCLSRAVVGDSMTSEVIED\E KQF\YSKA\KTYWKQIPTVD HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVDMDITE DFLVQAKTYLGEKGKRVNYF CCGLQDFTP\EPDSYDVIW\QW VIGHLT\DQHLA/ESFLRPCKGQ ASAPNGH\IVIK\DNIA\QEGVILD D\VDSSVCRDLDVVRRH\CSAG LSLLAEERQENLPD
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLCPLGASNSPASASQ/CSWD YRCVPSRLANFLYFSTDGISPC WPRMVSNNLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLLPGLGL RRRMCPGIYSFLLDFLVYLRG VYSIL*W*FVFFVLVPWFSA PS GHLRSSLCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAV\C LFVISKDLFLESPFESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRPAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWPLTFF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVFSFFAIGSNILFSSEKFI TDHLKPSSPTCQSHSLSSFVPLL ARVAFRWGFGVDVLSFVSFPSN SQDPQLQVCVCWRSTPDRLP GYHQRGSGGCRTADIEPQMLR LIVRLEVLSQRSTRPQRCQSA\L LGGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTTLFKA VRQ/ SHLSLQRLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ VKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWEPKWYSTTATRTHFWEMRS RSIMSTTKAFSTSNSASDSLEEP SSRKTRSSSLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*/VFSRNTLANITRRNQ LKMLPAPDPDGFSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVN AQTNPWQNISIASAISSSRTRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFIGI TPMNRNPPYTEASVTKQEKAL NMARFIRSQTLTLEKLNELDA DEQADICESLHDHADELYRSCL ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFRLKVMHWMNRMMLDAR NRDRYKQWKQDFFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAATKVRLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNPLNALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNTYLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGS QNTDSGIAATPCSCVSD*QNSTS SRIRM*PWMCPMPKRKSAT*N ITLRC*RAAPPISSVRK*/MSM Y/NHLQSAECGGHRFPVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNR TTTLMSTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNCSLWSTQAG/CSP/DVSAEG KPDYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNLNLALLPPAGF*SAT MPKCSAWAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSRSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ VCKRMPGADKPVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLEQKMLMD APKVEFAERVATASGV LIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKDVV RTTSIVMLAKVTFLSCITMSDFT FSGYELACFVTHSGLSRSAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREAVNKG LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLIKISSA ATKVKAVLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTSKKLTS WIAKAKAKADNLRSLSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMTVNEA LNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVLNLNLLGCFMLQ ESHKGERRGELLKIVVLPGDHV GQEITAEAIKVLKAISDVRSNV KDFDENHLIGGAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVKDGVSVC SFRCSVSRVSSFQWVRGLADF RSEADLHNSGAQLASPIGSR GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQSGG TQPEMVAGKAQAWRAAGFSG SGDGVGVSVLPWGGTCIGSFR QANSWISGGAFSDAGCDSRL GKDWSLEGSEERKMWESLE LPRDLKSSDRKMWESLELPRD LLNGFDQNAD\TICTMKSRLRW SQMEMKNLLGTGVNVTLMVLM* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDLPLLY TAVEEKGLSYSHPGSLVEKPLT STNSSGTPIQSNITSL*IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKLRTLVS SVTVLKD VVS GVCSFRYS DVSGVSSFQWVRG LADFRSEAADLRGLKLQTFVVS VTPHKGSVDPKSDQQRDLLQR VKEQNFRNVKGDPAALAHEDD VNGTESGAPRKHGDRELDVV ITNPHEAILENKDWIEDASGLM SHCIAILKICHTLTEKLVAMTM GSGAKMK TSAIVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTLLSV\SHLVLVTRNA CHL\TG\GLDW\DQSL\AAEEH LEVLREAAL\ASEPDKGLPGPEG FLQEQSAI
24098	54466	A	24236	472	844	RTDGVLVWMSFLVSVFSPNSQD PQLQVCWSLLEVHSRCLPGYQ QWRLCPHEITGESMSKLHIIQK YTSSCCLFKSS\SERGSSTPCPSW LGSGEGLSTLHATDFSFSAPMA QRGKSSLVSLE
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFFHRCPTQRGGI*RGSLA TAALLSCGGLCPVGS\SRHLCL\ PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDHLAPWLQP PFQG
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAFSPSLW DYLSLVFDVDDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSSLLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMETQ KKQERKPPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMETQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSLE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPA AEGPDC QKEN*QTERNSINIKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWIKYSVRT LNKSDCYASGYK*ACLLCSVYS HGKAAGECTLSAGSKNGLAIEVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RCDEEHWR ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPICGLDDLAIHSAV RLNRERVHSTAVLP*EYTKQRR QGHL*PDPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRPQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRCTF LSIPQVTSSFLCFPLPLLLKSSK LLANRDKYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSDPKAHGILPGYHC WLFRDQGLLKSQHVINPAKAST GFFLQDTLMVLEIKTTIRNYYK HLYAHELERLEEMDKFLDTYT LRLSQEVIDSPNRPIMSSKIESV KGYTHQQFCHKSTLNKGDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLELFKRGKGRGEQ RKEEVTGMLRKS LVTSDLPEP GGVTSEGCETAKVTACSSLWE LCHREVLTYPYCPKDTCKRWLE TPVRRSCPVRRSRISTCLRKCFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFPAFAAVAAGAATEAAA AAAAAPAPLAPARRAAAAARG PPLPRLP/WSCAEVMYHPQPYG ASQYLPNPMAATTCTAYY/RA GAPTWPAGESPDGQPAGGGGE GHREYRSGARRRPAGTRGAED ALGSAGASLSRKP

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLIVSSRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR\KSLPRNPLKVY GT\VFHINHG\NPFNLKAVV\DK W\PDFN\TVVV\CPQ\EQDMDRW TLDHYTIT\YQIYSKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLA AIKSFVKVQTQRILY MGRLETAK\ELTPFLAGNQRILS P\SGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGK GGAKRHRKVLRDNIQGITKPAI RRLARRGGVKRISGLIYEETRG VLKVLENVIRDAVT\YTEHAK RKT\VTAMDVVYAL\KRQGRTL
24117	54485	A	24255	3	292	TLLNLAAAHCSGPCLLWFQLSF RSPSTSAVGRCRRPADFHPSPRS SRVSAVLLIQ/QRCPLPILQLKA CHCSCTAKWLGSSPKPETFFEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLLNLATALSSGPCLLRLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPLLIGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSCLCPLGR IRSPVFAVASTSTFGTLRGKVV KDFGFVFPPPWGQPCLCVPEER ALSCQGPVVD SRCPRCGHEGM AYHTQQMRSADGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKGFYKSSCFH RIIPGFMCGGDFIRHNGTGGK SIYGEKFDDENFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKL VVFGKVNGMNIVEA MECFVSRNGKTGQKITIA\DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGV LAPSPE KRDLPLRVKDQGRRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGV LAPSPE KRDLPLRVKDQGRRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREEGASMLNMPCFQ*KE EMIQANLGPIADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELELWPKAL* LTPSQIFSD*RLKTDAAARSPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKEKSLLPKSLLAGSREV ARSRALCHGQARPPRPQVTQQ RTQLQGQRILQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDERDPA PATRRED KMIEELQPFGEHRPRRSPSQGC DTLFQALWFLASPSFORGGQLQ VLALCKAAAGPGAPQAASTAG TREHGYAWKLG DTRNHRALK RKSQTWLRRFPAGCPDVCSAL ADLRAF MGLRGEEVCADWSM GGHGS GECRRGTGGQRAVVPK SPVQEK GKEPLSLLQYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDACLG/RFTLSGK/FPL SWGRGKYPSTSPSPLAASPTFL GQGQELVTSARNLTTRPRNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSGKGSVREPWAR VPGALGVAAR*AEQSDFQ

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24141	54509	A	24279	1135	1483	ILTMTGSLSCTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLVVFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLVFIQ YFNV
24142	54510	A	24280	1	860	ATTGGTNLRDDIMRLDDTVHV VIATPGRILDLIKKGVAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLPKNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNGLCRNLVCTDLFTR GIDIQAVNVVINFDPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMLKISVS/PVSQKFM NSHLQKPYEINLMEELTLKGVT QYYACITELQKLAETYLHRIGR SGRFGHPGLAINLITYDDHFNL KSIEEQLGTEIKPIPSNIDKSLCG AEYHSEPVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPFETPEGV*GNP TCSGG*EDASGSTRSQRHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDGQQRAG LACSRPPGPGGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSVAHQCPSAARSPTLRQE DPEKGSQASSFPTGSPQSMVD RCLKGPQLDVSRKQLSLPQTGL RPVLVNQLSKKPTGYPTQIQW VLMRDTGKDTDTTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRTH SFYSRKREPRRQTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSYMRKWLK SPWSPLLLSPSLHRWPHGKFPM IS*QRKRRLGPGSQMVLHDMQ APPKSGQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSQCPV VPMSDHLPPFMHSYPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPCCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPTAAWTCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPCCVVPLPW L*EENAAIYSPVSPVCFLLLA HWIQA*CHQCNQPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPSQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGS SEPCL*GPRTLVL*L*L*KQTGM LAVAPEENQHLYLAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSSHTSPF QVAGSHSFPINAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSPSGP/DEQSD/LWWQQSIP LHQETVKVLH*MGPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPPDEEEEEASSIFSSSFHFLFP SSSSCFSSSSSSLLLRSPGDKD MPTAGMPSSLQSSSESPQSYPE GEDSQSPLQIQSSPESDDTLYP LQSPQSRSEGEDSSDPLQRPPEG KDSQSPLQIQSSPEGDDTQSPL QNSQSSPEGKDSLPLEISQSPPE GEDVQSPLQNPASSFFSSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVISIFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLQSG RWTTGKPLQQTksvylrsfhh HHFQNRHYLHHHLYHHHH YHPHPSHHHLHCYSQH HHH HHHHHHHEHHLCRHQKSTQVE YSVFAERENDLGLNGTGDEAL HDNGTTERVSGPPAGYLYRAD YAIGLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFDM GPRENMGSVWEKSFLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRFCPSSL*SSSSQG ACISKLLSVLTyAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALSPFHHVRMMLSTKQEV GLHQTLNLP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISSWVSGLVSF PEWSSWELVVSvvgwagklw LHESLLTLNLSCGLLVVLVALV FDEWHPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSELKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIEDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELTGAGFRRLVI TDFSELKEDVQTHHKEAKNLE KKIRQM\VTRINSVEKSLKDLM ELKTMARELCDACTSFSSRFDQ VEERVSVIEDQMNMKRKEKF REKRVKRNEQSLQVIWDYVVKR P\NLRLIGIPESDEENGTKLENTL QDIIQENFPNIARQAN\VQIQEIQ RTPQRYSSRRATPRHIVRFTKV EMKEK\MLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVTTRPA LQELLKEALNMERNNWWYQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPEAYNFPRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNRILEN GEVKPLDVKVGDIVFNDGY\G VKSEKIDYEEVLIMSESILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRRRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHICDIRFSATPAGGEFWQYIAS RQSIFHAIVETGHALIQSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSI\VTITDP TNTGVSTTSSSLTG\SNAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQ\AQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RLV\SAFTNSSRQSG*PEK SVSQTPVITASAF\T*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPRACGKP CLGERGRIRGPGPSFGLINRPST PDPTITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSQLAQISTVS/GIEKL NTTLGSGSI/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPGFVEWDGTL/TDGST APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLOGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRTNGVLRPAEGIQERGS FIVSTGFCDVFADFQERVFWRT TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGFVQFISF GGFIVLAFFRVVAGEQAIFKAVI LTHDQAGGGIGFGVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDIWHD DQFIDQVRVRFSGDNRRLQDRE QVGLQSANNPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQYQK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSLGLQENNGGRPVMV LALSTLPRRPTRCGCFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRSAGPERTLSDLH NESIF/ITGGGSLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCTYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELFFNVNLGYLLGAKAC APALIASEGSMIFTLNAAWYP/ GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEGKNHHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKKNDQWHDTFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVVWH**IRKNLS GGARYAIPHL YQHLAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVATLNGERLDGEMSEGK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLN\RFTSEQ AEGNAIYRLTPLGIGITDYIIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDL TQRLMDEQQ QQVKDDIAQLLNKDWRAAISS CELLLSETSGTLRELQDTLEAA GDKLQANLLRIQDATMTHDDL HFVDRLVFDLQSKLDRIISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCATR AVPLTRIRCRPLLPSRRERTAL PCIYVKIAVTLLTATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHLPLY GSSVFTLLNLATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTADF HPSESGRVSHVLLIQ/QRCPLLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCEHSVAHGRGIMDLSLLKALS EADAIASSEQEVQRIL/LEEADR LQKEVRVDGLGSVLIRLNESG PKVMICAHMDEVGFMVRSISRE GAIDVLPVGNVRMAARQLQPV R'ITREECKIPGLLDGDRQGND VSAMRVDIGARSYDEVMQAGI RPGDRVTFD TTFQVLP HQRVM GKAFDDRLGCYLLVTQLRELH DAELPAEVWL VASSSEEVGLR GGQTS\TRAVSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSNGGTDGGA VHLTGTGVPTVVMGPATRHGH CAASIADCRDILHMQQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVAVLDPIY GDSVSTGLVVAHSIIVNAITPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIKANSOVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLLVGMACHLN SEHLQMINTLASALPPAFSLKLIY CAA/ARLMCYTRTGTTSLAITLT ETVTQKLTGSRPRISSYGRNLM WPLAWYKDNGKPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHTPT
24201	54569	A	24339	30	177	GSGYQRCHNNAASDRLRSYRK QPAER/WLAPPIDSITSPASRA LILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENACFNATNHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPSPAVALPSVVKR TVHEGQGDDDESNPSPSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPKCFSVLI SNPWRVFGGTGGGNQER/CRY AEESVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSGIGWTGSGG EQQCFQTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGKNLIEWLPGSTIWA GKRFYQRHVDVHMIDFYWDIS GPGAGLENIDVFGKLSLAATR SSEAGSSSFASNHIYDYS/NEN AND/VFDVRLARWDSPPGPLTG FPPSALACTSGVSGQKGVPGPP EAQVTFATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYPRRQRSISTNSPSRRWKGL NSRRCSTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATTRPVTKLAMRVAIFDSV VGQRYWGSAA SPEHSRFAVLW ILASIFR/DRIASLRVQATVKS*K MS*AWYWQGC FRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSESSS SHTSTASLSVH RDY A HLHGLRFDHSSSRRLCY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFTPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHDV HMIDFY YWDISGPGAGLENIDV GFGKLSLAATRSSEAGGSSSFA SNNIYDYTNETANDVFDVRLA QMEINPGGTLELGVDYGRANL RDNYRLGKGLSQGSGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGMYQDIHWD NDHG\TK\WWT\AGIRP\MFKWT PIMNTGMKF/GYE/NVESQGP QNIRTIYLA KP*QPDVMPDIPGK RFYQRHDVHMIDFY YWDISGPG GAGLENIDVGFGKLSLAATR SS EAGGSSS FASNNIYDYTNETAN DVFDVRLAQMEINPGGTLELG VDYGRANLRDNYRLGKGLSQG SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIGSHFDSIAAGNLAR PIAVYGRNEITAIFASLKTMMQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIATSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFAVVAGEVRNLA SRSAQ AAKEIKGLIEESVNRVQQGSKL VNNAATMIDIVSSVTRVNDIM GEIASASEEQRGIE
24215	54583	A	24353	1	2493	

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24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRRAR ACRIRRASGIVQFGKVRRQLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTTPFGISGHHFNFFTVAIGDDI AQLDRIGANQSVLKGFNFV QYATDSMTSQGKGLSQGSGVA FDNEKFAYNI/SFNGHMLRILDH G\INWDNDNGTKWWTVGIRPM YKWTPIMSTVMEIGYDNVESQ RTGDKNNQYKITLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGADNANNANFGKAVP ADFNGGSFG\RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVQLQNFANWP KYSLSLTFHFPFSKSC
24217	54585	A	24355	188	406	FIRSFDPSPVPSVLDRFFVLSTVF HSSSIFLVVIDRPSCVGEPSLF*V GGSCPTNSLYRCGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLV TW MNNQRVGELT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQRGNITSDAVFNFF DNLLPDRTIVRDRIVKRYHAKS RQPFDLLSEIGRDSVGAVTLIPE DETQHHYESLTITDEGEFVVVFV GPSGCGKSTLLRMIALETITTG DLFIGEKRMNDTPPAERGVM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRKRSPVVSVS VWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYV VH AHTLMRMTEGWAGFDILRPYR WRRVIAFVVAFYFRHLIALLVV QM HFKLVKGNVDVVFTAQLID STVQLIDSTTTVTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTRKPCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPLYCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLSTSRLKQ/PRQH RFRLRERQPAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQHDLTTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFA RLKGITRKIGRLQSRRRK CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF SFMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFWHYLNEQDETPGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYS LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAVITGMLNQ ATVIAYANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVPMAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPGKGITVNPVQSTITEE TFQTLLVSRALEKLGTYVNKPS EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAGGDKKFY REGVVFVNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVDNTG DGKADLTGCNPGLGFEAINH QLGAYELTNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVDVKPAGCMISRRNELPYTLG LRIDMLVDLGTASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPQ YQSGTIEVDNVSFAYRDDYLV KNINLSVPSRNFVALVGHTGSG KSTLASLLMGYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARMSDGI IYTPLGEQGNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRQKGHAELYRGAEYS VNFLPKAAVTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPRLP PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVASVSNAMSISGQAGKEY TNIGVGFGTETTGLALSGNWITH NDDGDVAGVGLGLNLPLGPL MATVGGKGVYTNPNYGDGY AAAVGGGLQWKIGNSFRLFGE YYYSPDSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFTVFQ QQNGIEANFIAFPGRSGGSA LGRNVFGFRYQPQCQDKQYV QSRIHPEGVGVTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLEPVMMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRDLVL EALMEFIVERERLDDPFEPMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPLIDHCDADTILVLHRGQA VEQGTHQQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIIKPFKLEDVREAL SSIGIQGLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAYTG KIGDG/KIFVAELQVRVIRRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSRLPPRRRHLASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCSLSRF SFLAHLRQYLLRVAEPLPNSDR RGSMKLVTVIIKPFKLEDVREA LSSIGIQGLTVTEVKGFGRQKG HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGKI GDGKIFVAELQVRVIRRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGDRDKKHDTHH HQWGQ*FPYIIFWLVSPLAISRS KVSTHGLRQRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFPARFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTAQVLNRRRIKISRST*L TVVMGYWSIIPSVSLLKWDRR KSPKCSSLRVNISNTLLSTARR RKRYLIVIPALLVRRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLVVSFASQRFISA/TVGNQNA GVDLLNLTLVGGIFVLNNAGN FAVFTGDTSTIGRIIQFHRQQTN ATLRFSTQTLECFDRDQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRL NAYRAWLEMEEPHWLKAHYD KLNYQDYSYYSAPSCGNCDDT CASEPGAVQQTGANAFLSKEV EAAFEQLGVPVREGKEVAVDI FDSVSVATTYREKLAEQGIIFCS FGEAIHDHPELVRKYLGTVPVPG NDNFFAALNAVASDGTFIYVP KGVRCPELSTYFRINAECTGQ FERTILVADEDSYAAKRLTDYP HQLSGGERQRMAMALLTRP ELLIADPTTALDVSQV
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVK SITRESWILSTFPEW G SWLN EEEIEQE QVAPGTFAMW WLGCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTFFVLD PFAIRQIDAVLATHDHDNDHIDV NVAAAVMQNCADDVFFIGPKT CVDSWIGWGVPKERCIVVKPG DVVQVTALEIHAPDAFDR TAPI TWLADQKRRRTVKGR TTRPCN RSVTVRPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFLWIDS ELNLTFIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQNLFIG GLGVIVLAVAVLPLLIGIGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTV DNLF FIRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVPLRGIPACYL LQAPLTRWR/RIPPSRRICAAIDS AISRSPQRWLTAVCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVAWRRCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGLAGPKVLEHCIDCSVLLD GDADSRFRTLRSKHNRF GAVN ELGVFAMTEQGLREVSNPRGR GKRKFISPKKTPALAKFRNLL PPKVPGNGTSVRFRHSRICWMN PLPGAAWNCILTLKKPISPGVQ VPESFTPARLEAFAGRSQACL VPAQNILHQKSQAWLDFDPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA\ LCVKETRQIVRDPSSWLI AVVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDF\THTMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQR AEDNGQTFEPLIDVQT RYWFNPAAISQHFIIPGAVTIIM TVIGAILTSLVVAREWERTME ALLSTEITRT\ELLCKLIP\YYF\ LGMLAM\LLCMLVSVFILGVP YRGSVLILFFISSLFLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSM PAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVFLIASAVMFI GLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSL CCQEGLAFAVNLRQHFRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLAFADGHQI AAQPGLNLSCTRTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDSAISII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRTTAVHRQPVI SATTTVHEFLRCHQFPLVVC GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPYSREVAVFPAAL VTGGSRGIGRATALLAQEGYT VAVNYQQNLHAAQEVMLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERINRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVAAGQ IRVNCVRPGFIYTEMHASGGEA GRVDRVKSNIPMQRGGQAEFF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTPDPASVLPFREORA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDS\LALRPEGTAGCVRA GIEHGLLYNQEQLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAELIMLTARW\WRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKELDEDECKRR MYTNPLRVLDSKNPEVQALLN DAPALGDYLDDEESREHFAGLC KLLESAGIAYTVNQRLNRYRLS ANLIENNLSLFDGEGYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRWLK DGITTPGGKLP SERELGELLGIK RMTLRQALLNLEAESKIFRKDR KGWVFTHPRFNYSPELSASFQR AAIEQGREPF\WGFTEKNRTSDI PETLAPLIAVTPSTELYRITGWG ALEGHKVFYHETYINPEVAPGF IEQLENHSFS\AVWEKCYQKEPV VKKLIFKPVRMPGDISKYLGG AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQQLQA\EME VLENLQELKDLNQRQAHAESKI FRKDRKGWVFTQPRFNYSPELS ASFQRAAIEQGREPSWGFTEKN RTSDIPETLAPLIAVTPSTELYRI TGWGALEGHKVFYHETYINPE VAPGFIEQLENHSFS\AVWEKCY QKETVVKKLIFKPVRMPGDISK YLGG\SAGMPAILIEK\HRADQQG NIVQIDIEY\WFEAVDLINLCF MVTINNARKILQRVDTLPLYLH AYAFHLNMR\LERVLPADLLDIA SENNLRGVKIHVLDGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEA\VAIALKTGA SSVRFYPRYESNLRDVL\SIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLLQ\AYLYSAFFF TPEFLRPAPPLFSA\AVLPEQRQR AQGIGGLVIRPTVELHQAQLF FGHQPKIQSLHALLRGSTGFQA SFRLLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRRR KQARGTWWRLRHLHLYVQPH KHTSYIYRLYRVTYVMSAQV VDTGIYEFTTRKHDIGTIELPNS EIRYHGPNAMSRPRKTPTPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWRGKILARPLLFRAA *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLEENTG VALFFRTTRSVTLTAVGEHLLS QARDWLSWLESMPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRRDLVDSAV IVECMFAGRENLTTPHNPLDV LAQQTVAAMDALQVDEWY SRVRAAPWKDLPRRVFDATL DMLSGRYPGDFSAFRPKLVW NRETGILTARPAFAADSDIAD GQTQRFDFSILQSMHDLQSQA WR/GIQYDAEKSLWHNVE\NRQ LDAQFFHMGMGFRRRVRMFVS DPATHLAREIHFRPELFKYND GVDTKQLEGQSDLGFAFRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDTYTDSK EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRASTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRVAAFHICIDFQLRF RIHFRQFAHQIIVGHLTIRFDG VLRDQVQTVKYRAAFVADDSF VQLSAVTKTFIVFQPGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSECKGEIFLKFNMQRTGSFKIRGAFNKLSSLTDAEKRKGVVACSAGNHAQGVSLSCAMLGIDGKVVMPPKGAPKSKVAATCDYSAEVVLHGDNFNDTIAKVSEIVEMEARIFIPPYDDPKVIAGQGTIGLEIMEDLYDVDNVVPIGGGGGLIAGIAVAIKSINPTIRVIGVQSENVHGMAASFHSGEITTHRTTGTADGCDVSRPGNLTYEIVRELVDIVLVSEDEIRNSMIALIQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKSNTRRLPFAREQ/QDQHTLLAGTLFIAKILIPMQIAQSAAYRRRCPPDAQLHFLPLQLAPRGHRYKRVCCQVRYPPHIALIPVVFRLMNDANGLSQPADAGLAHHEMRNFLDFASSNVAASRRRCVAALPCATGKGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTKEEEPLSTPTQTKHPPHTVGTGPHPTPASGQTEKHERKRPTQQKS NARQNSKDKRTPNKSKTTPN RGYNQHPAGEPTMSTHEKVKP HQQNRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTTQAAPPPRRATRSGTSATAHNTEPHGTRHTQPGDCHKRAEEHRTADEPTPPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWRPGSANCR LV*GASGTDPRLYSPCAAAADD CGRRQNAGRRTATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHRS

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24294	54662	A	24432	1	1931	MGTLLGTLTVLTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPPIHLLDTCWPLTVDEH ANRSSIGNNNISFVVRNAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCVAGDINTVTAAADM DLEDPRIISARFGVPRQTQVRTW VALYEKHGEKGLIPKPKGVSA PECVLGRESCDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYHHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKA VQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYSLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRLE GGNVATLR/RLTIGMIFQDHHL LMDRTVYDNVAIPLIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFN RVGVTVLMATHDINL ISRRSYRMLTSDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLT MVIAISLTLPSVCYMYKNNVQ AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWRVIPGFS IAVAIYFLNESLGRPLMITGYSA ECSLLAWPVRSGLRKAPMKTFP LQSLTIEAQKQFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTGAIAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGLPM LLNLQSMGAS/WYLSVIDLFN NEVISYSLSERPVMNMDHLL MDRTVYDNVAIPLIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRLFEEF NRVGVTVLMATHDINLISRRSY RMLTSDGHLHGGFGGRLDRF RKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVRYAFHG ALQDLKSKPFATFLTMVIAISL TLPTSCYMYNIAKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAVSLVYHQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLAKRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLKAKVEIRVATVFRNAPE PFLRMIVVHELAKKEKEHNK AFYQLCCHMEPQYHQLEFDTR LCNRIRLNGHDHFRRRYALFRV NTGRTASPIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMEHISIIPDYRQAWKV EHKLS DILLTICAVISGAEGWE DIEDFGETHPDFLKQYGFENG IPVHDTIARVVSICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAPE LLNMLDIKGKIKTDAMGCQKD IAEKIQKQGGAVMNLQRFDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKL VFL\AHPQPESRK LGPF\VADIHQWQNLDDYSPOY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLLA PLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTNRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVTDLG SGSLVDLSQYGLPKPMPHELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIALRLQSHPLKRALRA DKMTLAALEATRLRLYLHPEALS EKLPTRLRLTRSAEVIQIQARQL QDPLAAHYGAFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLESLADRWRELVPVI GRIYDERLWDLRCLEDEQRFL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGD PVIIGVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELSLGIIGRVVAVGIVA SVVLFLRVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMLALQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDTVVLANTGVCLNVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAFAVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSPCCRWSKDRAAPSPA YSRLSSHVVIAGYVGGGVARG\ HSWVFVALTLLTAVLFLSLAGL LNGVFAKTFDDISLVPTFVLTP TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFYGFPPWLHNHR PGVAVDINRLLLPRKQEKLGK LDKDQLIAGVQDAFADKSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLLE /SLPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRRAIETTE AGLLGKNIMGTGDFELFVHTG AGRYICGEETPPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGQQKLLDSQV LIIGLGGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHIRIELNLAPGDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSDY QQQLMISVWNRGQDSFTIQPGE RIAQMIFVPVVQAEFNLVEDFD ATDRGEGGFHSGRVFCNMAE KQTAKRNRREEILQSLALMLES SDGSQRITTAKLAASVGVSEAA LYRHFPSTKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAA\SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGKSRRDLDPVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDYRWRAASQLPAQYQDLTSI YDVYTVPDRVAKRAFKSPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLHLAFSG GQRQRIAIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSVIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSLPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIQEV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSEMKGKTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPKLLCQGTR *RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAASRRL QPDRNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTL GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCITRGMRL LLKLSVHAATRSTLQQASHGH CAWSAPGWLDTSGMDGDRWL WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRR AVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPHLLL SKRPKISLNA YFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGM REWREERGQGVVHKPIGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTGE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSID AAVALGNTINEMDKYYTQENY KDDAFAGKTLHQTLKLNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYSLAVMI SAKQINNLSQDKFDAEAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNEMLMTRIGG GAGDQDMVNDFSYPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDP RRAGRLRDV*PL HE*YRHWHDQS/RLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAGLTLRRAGIRQP DMAVQRDHLPPRVAGVIRHIM LMLHSQRRRTGLLITAKNRLFF QRRSVPKFHSKLNQAYCLIAAT DCPRRLLLICRYPHHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLFLNDFIEQVIIRC HVVCQSAPAAANIQYAHWPWF* LQFFTNNHFELRLLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDRLVRRLC* KTYPVGHIPTSHYPN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLKQTLNWTTK NVTSLWRTLGSPPGVKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDHFQAADNIPDHMMY KSIRFNIYHHIRTVTRDINMHN APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRYSFNPTHSDVTR*IRI YAQGPRRVFAQRGCFEMHNLP GTVYPCVSTPGAEDGDGFVRH LGERLFQLLLHTADFLPLPAVI LTGGVLNAQRNFNRRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDALNRKILKDSIFHALQTIM VGKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRHHF QLLQLCFRFLFCLFRHLRRVDF ALQGFVVRVVFHTEFFLNSF HLLVQIVLTLGFLHLLFNAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVIFRSDVL EHPHRNNTIKLVVQVTIILQQN GDIQAFTAFLSHFLFGRNGDA HHAYVIIRCHVVCQSAPAAANI QYAHWPWF*LQFFTNNHFELRLLG RFQIIGIFPVSAGILHEGIKHAAE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRFEMMGELVLET RLRSPAGFTQWIPHQGCWWSCL PVPRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEYEEALHD GFRFLNNPERFDADGTLTLRVM SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQRGPSISVAVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEIYQRKGDISTLVNSDD RDAFVAQEAARCLECNYVCSK CV\DVCPNRANVSIAVPGFQNR FQTLHLEA\YCNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPDHYREPCQ YNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAELIQHDIDFVAAHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVKLAGDNQN VWKSPLFLREYNKGTALKLGK HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKP YKLTDSLTPGLFLLVHPNGSKY WRFYWLNKREFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATRVGGWSESYAKQV RSALEKDVYPVLGKRSIVDITA RDVLALLQKKERTAPEQARNV\ AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILSLLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPLTVM PALRETDTFDTFMESWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRDLFDKLPQF KQVLNMPTKRLRGAPCQQKIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGG\A LDYQEWCAAHGERFP\VSVAL GAVPATILGAVTPVP\DTLSEYA FAGLLRGTKTEVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDVDNARDWNDVIWAIT TRMDPARDTVLENTPIDYLDLDF ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSDDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAVAIHQHRNQLLTGAL GIFAVAVCCLQQRLDILLADHL AEHVQFVIAQFVTCQQHGNGV RNRTIIFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRGNGVINCSLTEDPQF GLILFVYTIGIQVGPFFASLRV SGLRLNLFVAVLIVHGGVLTAIL HKLFDIPLPVVLGIFSGAVTNTTP ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAAQHSSRT NGGALIKTINIRVENPNLHDLAI KDVPIIINGDKIICSRLKREETLK VSPDTIQLGDLHLHDSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMFLVPG ANAAMVNNSFIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRGGADVRLTKTDT AQDVLDEK\EILRIEKACGREP GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRT RSPEGTELLSARCPWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKS KLWQVVMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLALAG VLFTAISYGKLVRFPEAGSAY TYAQKSINPHVGFVMGVSSLL DCLLAVVIAAIYVGFSLAGFHV YIGMLFVPGANAAMVSNSFIYP ADALMFDLEDSVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVLDEKEILRI EKACGREPGSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTSPEGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAAHIKQLGFDGKSLIN PRQIDLLHNLAPTQKEVDHAR RVVEAAEAAAAREGLGVVSLN GKMVDGPVIDRARLVLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPFGGGQS FIPQTLDKLREVRRRIDESGFDI RLEVDDGGVKVNNIGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLDGTL VDSAPGLAAAVDMALYALELP VAGEERVITWIGNADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEQVRILRKLFDRYYG EVAEEGTFLPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIGGDDVQNKKPH PDPLLLVAERMGIAPQQMLFVG DSRNDIQAAKAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLVNKLVDAGD YKFKQIASEKLLIVTSTQGE PPEEAVLHKFLFSKKAPKLEN TAFVAVSLGDSSYEFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAASEWRARVVDALKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVVEEGEVRFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMMQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSRYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLPM ATGLKPALAVALGHFLLGLLCI VSQRNLRQIFGYCLMENSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLLILALWVVQTA ADAGEIFAAGLWLHIDGLGGLF LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHLFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYQQRSSLEAAWK YIIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIVLIVMSLI SSVIAATWLHVKSRYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPMATGL KPAL/AGLATDAIFAVIVMVLL ARHIWRTHGTLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSSKFNR RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT V NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHHTTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTDMMKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVPHIQWDDPQ MSRP\SGRHLFRCTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRVSD*IRLPILHSGKSPLR RMPNLMRRHSHTARHPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIGDV LMVTVWDHPELTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFR\SKAYV\TA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVVLTQNGV KTKVNLYALMQRGDLRQNKLL HPGDILFIPRNDDLKVFVMGEV GKQSTLKMDRSGMTLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVTTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSSLVEIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLQCAALRGDLLAKDIITG VGAHVGRILAIMVNLFPNQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTTA
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLS\LFDVDG RFVLAWMLFQGSYLAGALGDQ PVHHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIAKAFNLDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSASAEMITPALEGATLSDG QLKDGGKGKIDEVVKGSPAAQ AGLQKDDVIIGVNRDRVNSIAE MRKVLAAKPAIALQIFPVDHR GAIGGQTTDIPDPSPGINHDRC MKGLSFAGEMVTTYTNTAHRRA FTNQPRDFMSVAWLKGIAILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVEILIHVGIDTVKLDG QIFSAHVNGEAGLKRVVKEH AD/VQRHAESV*RRGQAQGT GIRRQDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATSARPSSTSTRHSAE SSISRDCVSNVS/HSGG*TGGIK G*CHAHPADLTACHEADSRGSP SHAVAAVALHVID/GWYLGDDQ TAAYATGSAVSCPSSGNQFSRP SAAGRFSASAPQGAQRHPGR ARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPIIR*PAIRDNA**I LPVTPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIAFQSGKILALGAENI ATTSDRRAQRQKAVCKAHDAS SVSFRTLSVRPTNDPCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNEPMTGWMAA AVVTLMIRMCFSVYTMLSESC QRMVIVGYGRCFADRQNL MVC LRMPNVFTGSCARMRCCLSEN LLYRHRNGHIQAEWP*KKAISD VKQYRTSCWERWNAASATIFR/ LSPVEWLTNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDIYISIMPKPDGLT AAKNLAFAFEHYNEWHPHSAL GYRSPREYLRQACNGLSDNR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYPAFPPIRRVKVAYREYRP PTTPRVQRDLTFCHRPAIPDR MHRV*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLIIIDANLGTRLYGEDPAG AAARKAKLEIIDNPDAEMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPELFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYCETVQTSCW/AA VETPLRQRSSVVS SGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGALTGSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLT DNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRHGLVSFISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFRPGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAVIVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLT DNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRISIPSISWMTRGSL RRVMLLCPPSESGTVSEKAWP EWSSFSSPPSCRTSASSPPSHLR /NIDVSPKHVV FATI PRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVTIGGGSSYTPELLE GFIKRYHELPPVSELWLVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDRREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRQRACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTARDTHIALNFQKRRTTGLA TQSRQRCQNRRRVMGKIVYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNMASRCNRHQAIVHIM FAYQRPFFFAHFFAIQNFPPGS IGGQLFRLPVTLLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTAVMNKFR FVEKGAVILIRFDKKKIDIFLQYR FHTRISTGHGVANNHQIRLRLE LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFSTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGDDLFVT NTKILKEGIEKGIANSILIKFKAQ HAGLLHMYTCAMLGVGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELLELIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVGDFHPYNVGRLCQR APRLRPCTPRGIVTLRLRYNIDT FGLNAVVGASNIVGRPMSMEL LLAGCTTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIK GAIVIDVGINRLNGKVVGDVV FEDAAKRASYITPVPGGVGPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAMVKEVA SKANDAAGDGTATVLAQAI TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGIR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPD PGSHNHRSAHALSSAQGYILLP RAVLSGWRWFENVHPTPGYPAG SGSVFVPPMTSRRLPAPDNFA APHRVRLKTGLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLES HLRIKFIDEQGRLFVDDEQQP QPVHGLTSSDEHPQACCELCRQ PVAKK\PDTLTHLSAEKMAKS DPRLGFRAVL DSTIALAVWLQI ELAEPWQPWLADIRSLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDLVPEASHG RDAALLNLLRTKVRETETVAA Q\VFITRSFVLRPDILQALNRL SSTVYVMILSVTKQPLTVKQI QQRGETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPQVWPHPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKLHRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASDGRVYPTLITRLADRF VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRRQ TEGAQGMVRNEEGSLRLSHH QACKATHHTQQWTLEVTQSSY NLFPEQWVKLFWGIRQGDPL AFSQKLSRQTFQQQTQTPRPI VGQAPKDLQTGTGPQTHAVH SGDHAAGEQSCSKCKAPIYPLT AQFSLETRSFWSWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCNSLAPCAGGYPST GAALPVSRKLPGRGLLSGWG EHNARYRAGTFLWALFCAAAY AYWRRCAWGQYGMWFLRIRRG TLGDGTIRRVFVGSWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLNRKRRQHVGCV*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLVV GNILNIVLDVWLVMLHNMVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLLALNRDIMLRSLLLQLCFGAI TVLGARLGSDIIAVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATERN SMAVAAAGFALTLLTLPWLG HALWLALTVFLALRGLSLAAI WRRHWRNRPGTGCLNTKGS QQQHRHDSTTQHIHLQLLVIRV KTTTTNNSQQTPOQYPCQYHT DSRQHRQQNRMVCQRIPHALPS PRFRQISRGSSTAKVPCAKARAF LRVKSDPTLITRLADRFVQCIV VGIDTWYDAETGKYHVNQYTG DESRTVTQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVLRELCRPF*SPGTDRNLVMHGH
24448	54816	A	24586	494	835	ITWLPGFRPPFQGSEQFCLAGVPGATGGSESVLHTRNSYKMLEVRRREVAALISALKVSAKCRNCGSSHALTEP/ASSPCWRETSTRPTGAPAPTIPPPAASPSPGPMCVQPHGED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRTKTP/IFRATPQWFVSM QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVKVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSDQHRGWFM SLMISTAMK GKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGADILRLWVASNDYTG EIAGSDENLKRACHYNACISL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVICRNS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFA GSPFCTAVVTFP DITPLLWILMC*LAILMAESEP KAISPPTISVVP*YAAESLLRV RIPVPSFVTSPLPLILCVIAQL RSVEMVSRPLLITEASPRFFCS LTLALPVSM LNCPTKRLLSPS NSTSVL AVALTIPFPLMLLR SSPVTFFSV NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPIPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSIST NAPSITSIWPLFVRKISVLT LASVVAASHAASSPRQCAIRCK IWGRWAGSLRRDDGFGVRSR GSRYGASVSISNFSAGINGK SSRSSSPRRSSQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFL YLACFTWMLLEGLHLFLTVRN LKVANYTSTGRFKKRFMYPGV YGIPAVIIAVSAIVGPQNYGTFT HCWLKLDKGFWSFMGPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQDTRVMTFKAISQLFILG CSWGLGFFMVVEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLNR QINSLLLTWTLWILRQLSSVN AEVSTLKDTRLITFKAFAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLISIGES VINLAVRPVIAHAIRVAITTRQT TRVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFNRRQ REQSFTQGEQQRWANFQNGKV VNHQLAQRLRLIIGRVRFENQ RFVVFDDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAACKGKKTFILHD GPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPGWDCHG LPIELKVEQEYGKPGEKFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIGNGHLHKGAKPV HWCVDCRSALAEAEVEYY\DK TSPSIDV/AHPFMGFDVPAILGD HVTLDAGTGAVHTAPGHGPDD YVIGQKYGLETANPVGPDGT LPGTYP TLDGVNVFKANDIVVA LLQEKGALLHVEKMQHSYPCC WRHKTPIIFRATPQWFVSMQDK GCDIGFHASSNGKRRADDSTDN HVRRLCARQRGQPHPHQFQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRALFDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQLPSLT WSSITYSIVVIVEAGYQYHSRLR RFG RVEVNEQIEYLIHNPIRTRA RAVNFVDNNRLQAPRILRQDS WWITRPLPGLTWAIGSPGILPQ VVKSARVMKQAVAYLEPFIEA SKEQGKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNYEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCFLGCV/YW FLVP*CCLSSLRRCCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IAQQGG QLC**QASASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDHRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLDLMWN WRACYLFLLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSSMTVSI LFILPIPAFFGAWFAGRPNKRF STLMWQSVICLLAGLLMWIP DWFGVMNVWTLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGLQNIGSGVLASLSA MLPQTGQGSLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEECDGEGNETHGLQLAV EPEGLQPNYMGRGKIRFRDTC LFCTQSRGSQWGFARTELVAL PPFLSGAADYRAGLALWLARG ADCDVDERHRADRQSNLARSS GGFIALAAGAKSDRRLRELNQS LQKELARNQHLEERLLEETESV RRDVARELHDDIGQTITAIRTQ AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLGLRLRPRQ LDDLTLEQAIRSLMREMELEGR GIVSHLEWQSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRRCERRISLSRNIARW RTIWRITRPCRRCVFRFIATSLR LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIPVDPRSIIIVMLFLAVRWL QRQLAGQELLETRATRILNGER GSNVLTGIYEWPPRTSSALDTL LREIQNAREQHSRLDTLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTHGIVMMIRLPDFN MLSDTWGHSQVEEQFFTLTNL LSTFMMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYSGLYGLGYGS KEIQLTYSGTAGDLISPLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDSGSPR RSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLRFHRWARDL GLAELLVVLPEAKAVGVSAMS MLGSDADWGVVLFSTRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSA KAPRHLPKNIDVDDMNRLLDID INDPLAVRDLMYGAGRLSELV GLDIKHLDESGEVWVMGKGS KERRLPIGRNAVAVIEHWL DLRDLFGSERERRQHAGTNVLQT ADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKL IHHNQVSFIPGMQGWFIHKS SMKVIQHINRTKDKNYMISIDAEK AFDKIQPFMLKTLKLVAGM MAVAAPDDPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLLRIFQVPAKLGMAVAVAA AAGVNAMLRKVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEGFEEETVDGRKCRVR PQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHIRLARASGRFGIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFSVDS FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSTRIG\DDLA VPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSPRL LKAELLLTSSIPVLLPSLLLPRFQ VPSLFATAVPVSAAPLIAPSV*L LKTPPADIIIRPVTLPLLLNTPAFC TILLMVPVLTNLSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPM SAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSNGNRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINN KAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPPEPR KISTDADNLAQGSLKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTPLPGITWPLCITTEKE DLSISDRLSTCIVKF SHPEPEMS VRKFVPPAILLCVCLRFSCPTR HQA KAPAKWILKSCSAWMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRGG FYYVTAYIYVDKKAPVHMRTA AQGLITLCCQGFSGLLGYRLGG VMMEKMFAYQEPVNGLTFNW SGMWTFGAVMIAHVLFMIF RESNEITAIVMEDSMSSATT LTPQEQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQTIRIPPPGSGLPVVP KFPTGCVVVGAGPVRFVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLRSRSHTRIGVGAEYWRD YLKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLPAAW PQLGASLMYEQYYGDEVGLFG KDKRQKDPHAISAEHSPEFRSE ALKLVNASVLLPQPVSACMN HNSTTGAVNSKISRLLNVNW RCLPRLHVSNASWQNGMKSWL SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVVRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQSINVPR/RSGWPAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANAAK GADWSKTFAQDLTNQKGEDA WPITSTTFILIHKDQKKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRRTRFKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRGSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHWVGQRDW EVRDFHGTEYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEDH AGALTELMAQIPDTPIYCTANAI DSINGHHHHPEWNFNVVKTGD TLDIGNGKQLIFVETPMLHWP SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELFECQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPTQ IVELYLKWAADYQEDRITIFYD TMVNNTPMMADAIAQGIA\ETG PRLAGENFNV\ARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDMKCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPFLVVSPLPGFI RMMLAS*NELGRIPSFSIGWNSF RRNGTSSSLYLW*NSAVNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFSLGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGRRLRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNPDQ GTASMYHGWVDPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRIIL TKYSNSNGSQSPWMEEQIRDA WGSMAIKNVVRETNEVGKAA PMVDSLARVGVMAIGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGGQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSPGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPVGVGTALSHP DLVWVFTLTAHSRPVLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGTA SVYHGWVDPDLHIHAEAALLPF YLGEKDDVTYAIKPTCWPLDI IPSCALPRIPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETVF VPPEKHEKEIHALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKA EYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPVE DTSLSSTPAAPMVDSLIARVGVM ARGNAITLPVCGRDVKFTLEVL RGDSVEKTSRVWSGNERDQEL LTEDALDDLIPSFLTGTQPTAF GRRVSGVIEIADGSRRRKAAAL TESDYRVLVGELDDEQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKSVVALFSPGGE LSARVIDSAPNLGIGTINVVCA ADVLIPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYTNINASQSPWMREKFGMA WESMVLKNVVRETDEVGKGQI RMRADFV\QAIDQRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQT DVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGR LPHPD\MEFRDRVDQ\RVVSPFGQ I\HMRNVFGPRLPRAKDVFPV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDP\QGT ASMVSREGDPALHI\YQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCALPRIETELMGKFDEGK LPTDPLMLRLAIETVAHAHDY DVVIDSAPNLGIGTINVVCAAD VLIVLTPVE\MFYDTSARQFFD MLRDLLKNA\DLKGFEPEVRIL LTKYSNSNGSQFP\WMEEQIRD AWGSMVLKNVVRETGEVGGK \QIRMRT\VFEQAIDQRSSTDTSL STPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGRRLRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TA\SMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPG DIIPSCALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDERSVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMELNYSASEDLVLKGLRV LLVEGNDPQGTASMYHGWVP DLHIHAEDTLLPFYLGEKDDVT YAIKPTCWPGDIIPSCALHRI ETHLMGKFDEGLPTDPHML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVIVPTPVEL FDYASARQFFHMLRPLLKNVD LKGFEVDVRILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVVFFLTPVNYL PGDALQKAFTDKEELLKQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDERSVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQVR DVQRNGDHTGAVR*LSIAFFS ALLKLLAFFTEEVRAAAVVRV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNPITRPFWSILRPF*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINHKKRKNSPRIVQSN DLTEAA YSLSRDQKRMLYLFV DQIRKSDGTLLYMTYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRGRVEQRGGYTIEPNN HMRDGVGTRWRAEDVFAPLI G\VAGHKGGRYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVPEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSECECV FCLSCTNSLQKEPQGEVLCPF CLEASQKNNIRLNRLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHR DVFGTRLRRAEDVFPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFQRYTGIQH VHRIGMAERMWCDNRNRHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWMEE QIRHAWGSMVLKN/VVRETDE VGKDTGVRKSIWCHNRNRWE

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24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWWPDLHI HAEDTLLPFY\DPHMLRLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPA VRILVVRVSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQVRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTAPNTQTASPRALA DSLMLARQVSR/VKRAPTC WPGLDIIPSC/LALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFSANVMVNFFAP VFPMGKYTTQADKVLPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILD FQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVDANA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSAKKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGR LKR AEDVFPVIGVAAHKGGVYKT SVSVHLAQDLALKGSL LKND FLFKLGLEGLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRL LGQTSVD RLLQLSQQA V KGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPISHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWVPDLHIHAEDTLL PFYLGEKDDVTYAIKPTCWPG L DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVRIILLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTALVPLIPNDD TPTRRTRPLLGGQVFSVRS*TV P ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLLRPRFHHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQHIFVLRER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRLRLSEDVFPVVLGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC L ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVRIILLTKY SNSNGSQSPWMEEQIRDAWG\SMV LK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDN SIDSWKNAGR VFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYL VFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLSDDTLKING VEDHKAIFDGDGKTYQNVQQ IDEGNYTSGDNHTLRDPHYVED KGHKYL VFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQSAKKRDAELANGALGIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLF TDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMGLDP NDVTFTYSHFAVPQAKGNV ITSYMTNRGFFEDKKATFAPSF LMNIKGNKTSVVKNSILEQGG TTLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQELGQNQY AVSGEIFVDRNTVEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTD TTVKFVVKM TEEKLAQAEAAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKDLIQMLVQRG YESDPVKAWEAQEKCDNLKKT CHTSHGSVMAETA VINHKRRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFLVG GHKIFVFHCHTELRSIHQAGK NVNKGRIKLVLIFLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGSVMAETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRSLRRCN QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTPQRYSSGRETPRHIIVRFT KVEMKEKMLRAAERKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWSK ILVSGTHRARTEVEVTDPIHQQ RMGCCFTVGAGEICEKPTGCFF TPLPNCNCQWTGSAILDRRS HSPASGSWVKVVTGSYQLT HSPGIGLRDFADFGTPHQTGFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLMHFKILVSRAHRART ELEVTDPGSSAENGLLPVVL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSKFD NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKT FDGDGKTYQNVQQFIDEGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHLLPDFADFGPTIKQD FRLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPISH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRLQ GGKEQKQPLQVAKWANLKPGP PSHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRQCQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRLGR RWQELLRDVFGTRLRRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILL/ KYSNSNGSQSPWMEEQIRDAW GSMGLKNV/VRETDEIG/KGQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGEGARHVEARS PGGGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLTNLHLAASAGN HMSNTACWYGCEDFTSVSTFA HQGVGSWDAYEPAASLLLS NLKTCHTSHGSVMAETAVINH KKRKNSPRIVQSNDLTEAAYSLS SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWWPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSSTP AAPMVDSLIARVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGTQQTAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPGELSARSQDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDVSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVS SDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRCNLTCHTS HGSVMAETA VINHKKRKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPE/VGCR *KRL*IFSLVYQTCAQSIQRALQ CTYQPISHSLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKTKR VGNERDQELLIEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIITRCINTAKLPKSV VALFSHPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEVITLLTSVLKTVQSKN LSHFTWICHAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHVVTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECKRK LRPF*SGQRTDTAYVFD PGRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRRDPTLHPKSEVRLPPKVTIT VISNPILITPQEKSPAQCTYNQT VQLDITAFLLKTVKKNKHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFENMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDVLMPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKKGRQTTHIRISDGT QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRRL* RL*IFSLVYQTCAQSIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGVRTGD FQLHTNVNDGAIEFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYTTPLEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IIRYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRAEDVFAPPLIGVAGHKG GR\YKTSVSVHLAQDLALKGLR VLLVEGNDPQGTASMYHGWV PDLHIHAEDTLLPFYLGEKDDV TYAIKPTCWPLDIIPSCLALHR IETELMGKFDEGKLPTDPLML RLAIETVAHDYDVIVIDSAPNL GIGTINVCAADVIVPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGCDNLKTCHTSHGSVMA ETAVINHKKRKNSPRIVQSNL TEAAYSLSRDQKRMLYLFVDQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDDGMDAVNG EHFYTAGLSQGPKGSFLLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEAVAPLLLTCDNLKTC HTSHGSVMAETAVINHKKRK SPRIVQSNLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNLTEA AYSLSRDQKRMLYLFVDQIRKS DGTLEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTLEHGDGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIIE YQLPQSYQRMPDFRRRFLQIRK SDGTLEHGDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIERYQLPPRYQRMPDFRRR FLRVVWQEINSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

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24602	54970	A	24740	1	398	MVDSL IARVGV MARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLTGGQTPAFGRRVSGVI HTADGSRRRKAALTEKFCIVD NPPGEIRKRACLFIPHTALNLNR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLEHALDDLTLSFLTGGQTP AFGRRVSGVIEIADGSRRRKA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSPYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPGE LSARSGNERDQELLTEDALDDL IPSFLTGGQTPAFGRRVSGVIH TADGSRRRKA/DTYRKILYR** PPGGD*KKSVPFYSNTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGRVFKDSKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFFLSELTTPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVFEANTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDTDSRGSKM TIDVPQAKSTNVVITSYMTNRG FFEPEGSKGSITAAMVAKGLSV ASGNSTPERRRATANENVQPR IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHM RDVFGTRLR RAEDVFPVIGVA AHKGGVYK TSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWPDLHI HAEDTLLPFYLGKDDVTYAIK PTCWPGLDIIPSCALHRIETEL MRKFDEGNLPTDPLMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAEQLDIS\SS RQFFD\ILRDLLKNVDLKGFEPD

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24604	54972	A	24742	1	3899	MVDSLIAPVGV MARGNAITLPV RATNVKFTLEELRGDSVEKTSR VWSEKKDRGGQEA EVSGEGSS QTKSLQKRQHSNGSDFTARGF HTGQALVR SKGTYNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVR RDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTPKGTASMYQGWVDPD
24605	54973	A	24743	268	2617	RMFRMKLMETL\ SQCINAGHE MTKAIAIAQFNDDSP EARKITR RWRIGEAADLVGVSSQAIRDAE KAGRLPHPDMEISGR\ VKHGVG YTIEQIYL\ TRDVFGTRL PRAED\ VFPPVIGVAAHKGGVYKTSVSV HLAQDLALKGLRVLLVEGNDP QGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP G\LDIIPSC LALHRIETELMGKFD EGKLPTDPHMLRLAIETVAHD YDVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQT PAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQ QASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMALNLDRSRVPAYIIRSY IRCGRKGFASAGVGGCRGWLN YAASEQIVLRVHHMRCEIPHRC

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24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSAPRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGPDSESELGYREKFMSF VGTMNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQSV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRHRRRRRVSGVLP\IA\VG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRLMNVA\GNDP QGTASMYHGWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIPSCALHRIETELMGKF DEGKLPTDPHLMRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYSNSNGSQSPWMEEQIRDA WASMV*K\NNVRNANEVGKDT LKGfYSLKERPLGNHFLGPNNR PFGKIMKHKTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGFCRFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDF VKCDERELLPGFTEADQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFVVC DERELLPGFTEADQLELLSRS KTVNRALKVWA\VGADRELT FLV\MDYLPFRPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQRLLASHQPQPSLLHGDLS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYYSNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMNLLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNL SVN VGGRAEVHAGTL ENAVIQGGTVILLSPTSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAEQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLRLTRGHDFACYQ RTTQLARQRLKVC SHLIVGLP GEGQAELQTLERVVETGVDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMML A\WPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAHP ATRDFNVRALYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPVAQATVIETFL RYQTINERDFWAARNRLKQP YGSRLRFTEAYIAERAAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPDRRHNRRCQ YRPAMAFPAGSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLQGNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLRMENDAK\NWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTHEYAARN SPPPEL\VLLPPIKKVLPSEVFP\ QIYQPPVSKGDGYDRDNLLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLTPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWYDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSRPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQALESRTFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLFLPPP GGSTVFLLPYSPRLCRSTSETP LPAITR*HFPVTDRVQK*ITRRR KPRHKPFYPDDLQQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LHPCGHCRQF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAAIAAAN RSHMPYSKSPSGVALECKDGRV LVAATLKTPH/INPTQICGPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLRNRSRAASRWAS PGARK*WMPSLQAVWAAPMR VTRLPAWLRWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAARILLRDHLI CRMSC TAARHANTFDLIQSGS ADNF AAIYGGANDRITRADA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIT ALFIYAGNPIACVAALEVLKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLKIFVVC GAEIFV EYVLKNKVIWLLCFANIFLYVV RIGIDQWSTVYAFQELKLSKAV AIQGFTLFEAGALVGTLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNI EC VQT LDMMPENFS DTRWAADIHITPD GR\HLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNVD HSGKYLIAAGQKSHHISVYEIV GEQGLLHEKG RYAVGQGP\MW
24624	54992	A	24762	3	486	ACRRALKDAGVEADEVLEV MVG GSTRVPLVRERVGEFFGR PLTSIDPKVVAIGAAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLEVEKVIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVCAVIAG NVFPRHNVQGQH*RNCQQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTAVKACEQ VIAAVNQIADHDHQPDRTKQRN AIVVADDLPDLFPVHFFGVVDHQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDSEMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFA\CVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSALF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFTRTGKDLCHFHHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLALVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKPKDPSLSKD VSNRVPQRVPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTNV AGWQGEISREQFNELIAPLVKR TLLACRRALKD\AGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPKVVAIGAAIQAD ILVGNKPDSEMLLLDVIPLSLGL ETMGGLVEKVIPRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVDQCRSLARFACVVFRRYR LAGPVDLFLRPWEVDISRTSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRDPKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKLG CIA PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGSPAIPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCGTFAATS AVLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRFLDITDV AGVVIVHVFSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGDIWHGYLPDARPGRLRYG YRVHGPWQPAEGHFRNPAK\LL IDPCARQIDGFEKDNPLHAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPRTPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALLELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELDLGPLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTASLSGV YELILVAATDGTAAADVRLGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQGQPIGLGE ASNDTWITTKVRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGC GVSYPSSGP LDKWRALLFIQPDYRADPVYR QHITITDLRILYDYTENFVLPLSH DEVVHGKKSILDRMPGDAWQK FANLRAYYGWMWAFPGKKLL FMGNEFAQGREWNHDASLDW HLEGGDNWHHGVQRLVRDL NLTYRHHKAMHELD FDPYGFE WL VVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGKWREILNTDSMHYHGSNAG NGGTVHSDEIASHG RQHSLSL
24646	55014	A	24784	1	1079	MKQIKELQRLLGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDCKPTIKTNTSS RGNEKNPDGSHNNIHSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKA WSGDGHTLSEC GWAPLAAGDNVGKVS YQTLG YYQRILGYIFYPIAW/VMGVPS EALQVGSIMA/TKLVSNEFVAM MDLQK/IASTLSPRAEGHISVFL/ VSFANFSSIGIIAAAACE RDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIQFFGLTNMGQN CYQLS*E*FIGTLNHIRIPQLS
24648	55016	A	24786	1	470	WGS GDGHTLSECGWAPLAAG DNVGKVS YQTLGYYQRILGYIF YPIAW/VMGVPSSEALQVGSIM A/TKLVSNEFVAMMDLQK/IAS TLSPRAEGHISVFL/VSFANFSSIG IIAAAACE RDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQC CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCFT*HNLGLQPFWIPM CLCSVN VFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIFDLSSGWPFILWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGVFARGACLGGGGGCGLCV RYLRSAGWGCGRRFPCVGDN WSAILAHIGKPEELDTSARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFILAG QTLAHIRVLPVIRAIIGFLLSKV NGMGKLESFNAVSSLILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMIVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQGILGYIFYPIAWVMGVPSSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIIISVLLDSF ANFSSIGIARAVKGLNEEQGNE GSRFGLKLVYRSTLVS\VLASIS AALVLS DHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTPFHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFPFYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGIIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVVPILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAI VKEALPGWSGVDSTRLDTPGKI DPIHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNP\AVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSRS RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKKYLLKGLHRLQKGPG YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLTLFAAL VCWQWGIFIRTYLSWEVSLS VGFKTMDFPVAVTICNASPFKYS KIKHLLKDLDEI.MEAVLERILA PELSHANATRNLSFSIVNPTPL VLIDERNPHHPMVLDLFGDNH NGLTSSSASEKICNAHGCKMA MRLCSLNRTQCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGEQMILACLFGAEPKNY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLIDIGQ EDYVPFLASTAGVRLMLHEQR SYPFIRDEGIYPMSGTETSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSDYNTTYSIQACLRSC FQDHMIRNCNCGHYLYPLPRG EKYCNRDFPDWAHCYSDLQ MSVAQRETCIGMCKESCNDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGIVKLN IFFQEFNYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCIEFG EIIIDFVWITIHLVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQPADTAPRSPNIGPYPGEQ ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPITLPDGSQRSFDHPVSVAEV AQSIGAGLAKATLAGKVDGRLI ITPKDEEGLEIIRHSCAHLVGHA VKQLYPTAKMVIGPVIEEGFY DIFFERPTPEDMAAIQQRMR LIDKDYDVIKKMTPRAEVI KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRI EAKRDHRRIGKQLDLFHLQEEAP GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGRLTVLYSGSSLSGGRY VVIIECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVYSTGD TLSSILNQYGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LNLG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLVPDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKQQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPVMM VRKTVRNMQPGETLLIIADDP TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLTYAETRRLYGKEVYH RPSRFIGELPEECVEEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQVRHAKFGEGTIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPDATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKLRL RRFGFKSCKNGVLYRISSSITT SPASPIATCRPVLPCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKSFSLRVAWLSWPQ YFYIIERACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNLYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDVASGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTD WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSF/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAAQILG LREYLKRKPGALSGGQRQVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTMATRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLAVLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRSG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRRLCSVFRY QFSIVLATC*GTFFPSR*STILS* VTQSATSSGREGRSSSRSLNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFGLC GCFLSGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCEKAMSVIIIG GGMAGATLALAISRLSHGALPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTVHVVELHNVGQRLFAL LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGVDWQQEPYE QLAVIANVATSV AHEGRAFERF TQHGPLAMLPSDGRCSLVWC HPLERREEVLSWSDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASFIRKSKQQAR KHTNRRSKDKEKRTRQKRKTT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQ GKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHPENPQWKFVL ARRGFARGTAEAHPSQYRHW C KIHLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFFLIQTSLKSNGGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRLRASFSRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLSDKPVAAFKN YGKKGTIAPFDLEVRPGEIVGL AGLLGSGRTETAEVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRGVCYVPFPAKNSKRL PNALSASLAF AHLQLNNRLNFS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPQGAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CR\DGKWKMTTEKGCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAGSKVGLGVKVAG ITQDFTDGTNTTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYPA TGTPPTIQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTDGNNW QVYTQDSSDPNSIAKTATTLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGTLTN/GSIESGI AFLVNVPLNPKLKRVNVAGAR WHPYGWPAFAERA CLIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKGDGGRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTEEHT AGTTKPPDTPQTDNWKGS REGKANRKRNLRGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPATGTPPT/IQQGAN PTNISIPNTLMQRKPTAGQIVLA NFANHEGLASEATTSGLRRL A WRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANMNAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENL\KLEQYHAAGIEPE SVDSGAIITGESAKTRNARPTV MALSQLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRSLSRW AILSLPGPGR*TGRFKRSGTENL \KLEQYHAAGIEPESVDSGAIIT GESAKTRNARPAGMALSQLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQPHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRTGSARA NCFCFSGLTRDFSIWRPETK*SA QTFVVGTVRCGGMGR*IAAVL SRYSTVESGVSSSTHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMNTPQPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQRQGFANDGRGEI WRKLIKPNRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCSTTNIIKKIQDKKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPIDSSISNSLVGERSRPR AQISSNSSRL*AIPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFSLH SVVIGSSSERVVAKK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRPFFGTANVT RLETERGGICSRSPWEVVS KI AWAEAPDPPGVITILGLKTQHAT /VSEVTSRFRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSKLDVFDLYNL AQKRRFERYQYALSVEKPM D FTGNDTYNLDKSKAPWPKNEA ELNALWDNVFSLAMTAFAREI DPHTNYLSRPNTEQFNTEMSLS LEGIGAVLQMDDDYTVINS MV AGGPAAKSKAISVGDKIVGV G QTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGT KTR TVTLTRERJRLDRAVKMSV KT VGKEKVGVLDPGFYVGLTDD VKVQLQKLEKQNVSSVIID LRS NGGGALTEAVSLSGLFIPAG PIV QVRDNGKVRSDSDTDGQV FY KGPLVVLVDRFSASASEIF ARD VVVGLCICLSSLDVWLCGL FCR CSVDAERTKRQGGKGEESR KR RRKGYELSYLLFGWSAVV LLF VSDAEQHRASRHGGNACQ QHP DVRHDEADGYPRQSHQLRL RR FRCFRPGRPLRLRRCQHER HDL PDDCRQVDRRRNGDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLPVCM DRKAGK HGVAPAGDLYVQVQFN SHPIFE REGNTLYCEVPINFAMA ALGGE IEVPTLDGRVKLV PGETQTGK LFRMRGKGVKSVR GGAQGDLL CRVVVETPVGLNER QKQLLQE LQESFGGPTGEHNS PRSKSFFD GVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHPIYQ HGQTV S*SCRRRGWSSISR PVIHHADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVGRP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFVSVQLFEKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGELRVVSGETLLSYR MPQVLQRFRQRPKVRSLQSL NCYVIRDALLNDEADVGVFYR VGND DALNRRELGEQSLVLVA SPQIADVDFTEPGRHNACSFII EPQCVFRQIFESTLRQRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCRMRRERLIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRKSKRDSRREETDT KKKTRDKATKREKDKIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLVDESHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGTR
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGRR VRVKGSGCQPWICGKVPVFIPV ITEQESFQELI/RRTTTACESLGK EYEILMIDDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHSI MAGFSHVTGDLITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCM/LRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHAHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLKDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVS GATVTIMCAAILTEGATIEVFY FLPLAIGKFNELYPNIKVRILAEQ GTNNCMESVLCN\ESDFG\NMA NNVTNSSI\DTPL\VQRRPFVL\ ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLIEQQLAD KPWKLDWFYEVRLSTSLGLV EAGLGISALPGLAMPHPYSSII GIPLVEPVIRRTLGIIRRKDAVLS PAAERFFTLSDFCGPVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAVSWIGKVKT AQMVALLAWLLWRPPIWVEYA GIALFFVA AVLTLWSMLQYLTL RVQICLISDRFGVIFSKRSKVVK NIVDSSRQEYLEEFYARYNVELI RAPEGFFYLPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTLADEAK LLKLNNRSTGSDVDRLQKLQE KVRSSLNRLRLRLGMVWFMGH DSSKFRITESVFRFGADVRA DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGCRCPISGDGRIFA GILHGLDNELPLQEEVEGNLE QEGLPFPIRQSDALDLCSFSDILV SPNMYIDDGMKRDWPVMKQC ALQRRWRILPDHYGTEPAEGRP GFAPHYCFSYALLVHMMMAQQC DLEVGDVFWTGGDTHLYSNH MDQTHLQLSREPRPLPKLIHKKR PESIFDYRFEDFEJEGYDPHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMV\SQWDYV ADRFGTADLLPFTISDMDFATA PCIEALNQRLMHGVFGYSRWK NDEFLAAIAHWSTQHYTAIDS QTVVYGPSVIYMVSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVWTCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRFAGIAYQIV KQTTVGTTEITLRRYVVDGNR IPPRQDRQGDAFFGFATHTQQW HQVFKRQRDIQIVTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTTRAT RRRRHTEKKRRKKRPATHVL MTATLIPVSRLATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY RELFRSDIKSAVVDISQCNT FNYLFRFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVNRWFSVMVGPSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TRLR DTPILTFMKNLDR/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRI KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DG\FMAGDRSHVEEAY/PGDIL G\QGEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEFF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVGMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTNANVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFTT RNQLTSNQSILMNLVDGPFKKL IGGWKFPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRTPNQPRQPGPKIGGISPAGSALALACGKRTVLFASLCTR TGGSQ LGE \PALVLLADQMLALDDQYTFLQRIPRSPYGLAFGPVPHLHYLHQMRLLDIAPIAFRAMSLAFPVNYLDAVRTGSICSNCNQRSNDSAMGISMNVSTLMRVRAIWVYAAYMERVLNLLNNALRYCHSTVETSLLLSGNRATLIVEDDGPGIAPENREHIFEPFVRLDPSRDRSTGGCGLGLAIVHSIARGN WATSDHRS LTGTQPYARIVVFLVRLIFAFRVTQLTLQISFVR FVVVQNAFPGCPLGIGIDVHFY YAVAYGVDFDLSSRTGTTVFDDLNTPDFDRCFAFMQAVGKGYTDAYLPIVERRKAMAYGERERNFQLYRRGRYVEFNLPSELAATVYQSDPNFATGCFRLYTSCNTFNMHKAATMLVRAEFSQGYQH QV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQFIEITFTRLPEVRIHHLQSPASALSCNHLLIRITQFNADITIGHLPVNRRVVTVLRDMRHHGDIVHPGVRRGVEHYAAMPDGPVKEIMEVRLFLAVFVGNHHSRRD SLPVQFVVHTNGD TYTFPGNNIRRDIGFKWRIAALMLHHFLIIDPHFAMSDRIETQHDTLACPNFRYKDFALIPERCRII/SEYLD RRTDRLKWCYAAFQ QGDQSQASNPMYAKAPV*VRWVHGYKALSEKGHLVYQRLYQIFQHA EYQTGTND AEISTKLCLFSSSL LLLSSSLQH SI PPNA CL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICNTSEELAANIKRLGDTVRLNAFHAHGVYGEAQSMGERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLRFGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLPLNLSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL SA QDKLVQQDLTDTLATL DKIDRI KEETVQLRQKVAE APEKMRQA TAALTALSDVDNDEETR KILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVILMADHS KFDAVEPHAVATLSCIKTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFV\WPVHTVTLL\LGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEEAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFFNTRKKRLEDNLPR QTVLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTTSMPVIL LVMMMLAMGTHIPQPVIRIPGGR FHYSPhQGRDLP AQRSTWHD FCLQAPHLFRRNTVNVNSSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWLPVLF GNDERTLN GH YAVYYALSMEGA EKCWIVVK ALVDADSREFPSVTPRVPAAV WGEREIRD MYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*1 AVANMLLNQFQQSYTPMLHDL IVRYDGDHQQKSFGVQLPGKL RIVKLIQPVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDVVEISFNF FHSEDEVVRHPVVARIYNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRIPEAQ TILSRYPHQLSGGMRQRMIA MALSCRPAVLIADPTTALDVT IQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIADRVLMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGE PVLVRVNLVTRFPLRSGLLNRV TREVHAVEKVSFDLWPGETLSL VGESGSGKSTTGRALLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQFIFQDPYASLDPRQTIGDSI IEPLRVHGLLPKGDAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICARALALNPKVIIADEA VSALDVSIRGQIINLLDLQRDF GIAYLFIHDMMAVVERISHRVA VMYLGQIVEIGPRRAVFENPQH PYTRK\LLAEDPVAEPSRQRPQR VLLSDDLPSNIHLRGEEAVVALI KPGAQIGR\PQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSAR ALRNEVRGGRCHKTIIRRVSVG KKVIGLKFRHLVPVVTPEIVIP PAPVANDTLVAEVSAPQAND PTFNNECLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAENYQ PLYAALGLHPGMLEKHSVDVSL EQLQQALERRPAKVAVGEIGL DLFGDDPQFERQQWLLDEQLIL V\KRYELPVILHSRRTHDKLAM HLKRHDLPRTGVVYGFSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVI AKLPLASLLETDA PDMP LN GFQGQPNRPEQAARV FAVLCELRRREPADEIAQAVLNN TYTLVNV
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*RL LLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGRL DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFERRAAT RKRVRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADIIRD\EPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQARQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLEDIFYDQRKESVRW HLDLHTAIRGSLHPQFGVLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLLAQDGEERTVTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQ/LDANIQRNLNYSLDI ANAAGIKKPVYSN\DGIERKLEI EKAVIDVAELNGELRNRYLV EQLTKAHVNDVNFTPFKYQLSP SLPVKKDGP GKAIIVLSALIGG MLYCRVCIKRNADSPVFSGFS DPNVVLIAAVFIIGDGLVRTGV ATVMGTWLVKVAGNSEIKML VLLMLTVAGLGAFMSSTGVVA IFIPVVLVSAMRMQTSPRLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSSFSVTPIGL VVLVLGILYMLVMRFMLKGDT QTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQRLDD LKLRLRYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFSLIPESELIGESVREIGLRTRY GLNVVGLTRTGVALDGSLADE PLLLGDISWLWALESDRYAAM LGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNR YWPGRSGHR*SPHAPIIGTQFLQ ALFQTDQFVFALSACGRRHP TDGRRQNPAVSGHSAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDFGA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRACKTVM AVVFAFACAGLLISFILPQKWTS AAVVTPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDELDLHRAIVALSEKMKAVD DNASKKKDEPSLYTSWTLSTFA PTSEEAAQTVLSGYIDYISTLVVK ESLENVRNKLEIKTQFEKEKLA QDRIKTKNQLDANIQRNLNYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRQYLVEPITK AHVNDVNFTPFKYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFSNSSHPVSNPSIQLSSITL PLVENESRARA\VKDQMDAIDH QTGVRPLVFYSIVLPEIRAILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNLNKYDA RIAAIDYTLAHDGSLRNLDQ AQVILLGVSRGKTPTSLYLAM QFGIRAANYPFIADDMDNLVLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNQIPWINSTNYSVE EIATKILDIMGLSRRMY
24772	55140	A	24910	77	434	EKKRGREDKPGTMATFPPATSA PQQPPGPEDESSLDLSDLYSL AHSYLGPLIMPPTSPLTPALV TGGGGRKGRTKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMAFPATSA PQ\QPPGPGGRDSQPWMDLL /YSLAHSYLG\GGGRKGHTKRE TAANTQPPQPLAGHERKTVD KLQ\NSERKKRGARALRQEL EMRRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAW LMEQKSLIALLVLIAIVSTLSPN FFTINNLFNILQQTSVNMAVVG MTLVILTSGIDLS/VAASIVGIEV NALVAVAAALALGAAIGAVTG VIVAKGRVQAFIATLVMMLLL RGVTMVYTNGSPVNTGFTENA DLFGWFGIGRPLGVPTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIKIIVY SLCGQLASLAGHIKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQQKAVITTT GHLEYEHEKTGYPGFRCCAKR HRQCECDGKRHHRAGGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLELV VYTASDGQEYEMVSRLNWN YLVLEDVHIILPDQMRGITGCY ATHPHERRLHAGTVHRQNIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPELPGLISCHNSIQVSN EARLFELLICQWRDFRKRVI AAKSMQGRELEGGQRGQDKATNP FRVLALKGSGDPDPHGAGRQG SDLLHPVSDAQVLQHFFQRR ALLSSPWDYHDVVGLCAQEP CGYIMELFIIKHQCSLAQTAG SLAPEQKKELEMTVRYIYIS ADLTAEKFATAIRN/HWHV ENKLHWRLDV*RQFDKHC STADSTRILASFVRHVNA ALDVRVVFASGSETTHGD GARRYLRCVDVDWRRRT AVAQADKSARACHFHYAGYH HHEHFADPVSVGAKYHTV FST

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24781	55149	A	24919	417	861	AKGPCPDRNHSSDDKDVIADG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDIAEKIQKQGVIFSLCPASIIDD KKVTDLAVAVQGTCLKTSGGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISIIPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYGDFENGIPVHDTIAR VVSCISPAKFHE\CFINWMRDCH SSNDKDVIAIDGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQG GDYLFVAVKQRNGAVENRAKTQ TRIAFGDHFFRRQVSQRIRLFCH RLATQFAARLRMFATGQPMN GLRLLLFIVNKQAALLVNLDA QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVSRPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAFAGHR FESSVDCACSATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVTTVVVA VRPSSFYILCSHKKKRTLHTKR EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYI I K E N K M E L K K L M G H I S I I P D Y R Q A W K M E H K L S D I L L L T I C A V I S G A E G W E D I Q D F G E T H L D F L K Q Y G D F E N G I P V H D T I A R V V S C I S P A K F H E C F I N W M R D C H S S D D K D V I A I D G K T L R H S Y D K S T / R R R G A I H \ V N N A F S T M H S L V I G Q I K T D K K S N E I T A I P E L L N M L D I K G K I I T T D A M G C Q K D I A E K I Q K Q G G D Y L F A V K G N Q G R L N K A F E E K F P L K E L N N P E H D S Y A M S E K S H G R E E I R L H I V C D V P D E L I D F T F E W K G L K K L C V A V S F R S I A E Q K K E P E M T V R Y Y I S S A \ D L T A E K F A T A I R N H W H V E N K L H W R L D V V M N E D D C K I R R G N A A E L F S G I R H I A I N I L T N D K V F K A G L R R K M R K A A M D R N Y L A S V L A G S G L S
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	M T E I E E N M L L P I S G Q E L P I R W L A Q H G S E K P V T H V S R D G L Q A L H I A R A E E L P A V T A L A V S H K T S L L D P L E I R E L H K L V R D T D K V F P N P G N S N L G L I T A F F E A Y L N A D Y T D R G L L T K E W M K G N R V S H I T R T A S G A N A C G G N L T D R G D S F V H D L T S M A R Y V A T G V L A R S M G L V I Y S F I Q H T L T L E E Y R E I T A F L F R E F T H A A A A R Y T G E Q E T L P L S P Q W I L R Q C K E V A S L C D G D T F S G E Q L N L M L Q Q R E W R E G F L A E R
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEEFTW YVNHTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGWNLVE VKPWYVVGNTDDNPDITKYM GYYQLKIGYHLGDAVLSAKGQ YNWNTGYGGAELGLSYPIKH VRLYTQVYSGYGESLIDYNFNQ TRVGVAIGVNVAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFETFAAFAHAFHW VIQAIGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTDAAQGIILHS DPDKVGRALYSPDEMQLKPE ENSRWRLGKTETTPALEVYRL FQPM SAPWRHGMHNMPRCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLIILYALATVLL ASVLSFFWYRRYLRSRQLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVQIRRFHAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTPEQAE QIKTLLQYSPSSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLVNNGNLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASSRLWL QIITQNKLFHRLAFTLQGIIVNIQ AVFWLQKGTEAADILTTCACL WIMMYALLSVFSLLDVILILGQ KFPAAVAFQLPLKGNIFQGIKLMGP ILVGILMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGLVAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKPYLTSRHEINE WNRQQGSRESVINLRRMPNIG VTFCAVLNKVYLGTHVPRIRKDM TLMVRQLAPGDNGLPFEIYAFT NTVVWLEYESIQAIDFDHIFAIV EEFGLRLHQSPGTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLNKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETELDLIQKMGLQNYLQA QIREEGKSIYQEQTAMKRPDY RTLQALDAVIRERGF/EARGTK AVHYTISRHTAH*ATGKYVRAA AVGAYRTAAPDGTRAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVVASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIFYPGKIAAIWQNPRHV ESGSM*TL/IDSD*VSPTECLSPR HHYMPFEEAARGYEIFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPTNDPAEPHQTRHDSR QPHNTPPAYAEVLAAALLTTDT NVTRRRRLRYMQPDTKLCHSAG KSIYQEQTAMKRDPYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQAL PSCLVDKLGALDYLFVSSKPPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSV PCHIVNSSEAFVQLARQGTTC MIPHLQIEKELASGELIDLTPLG FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGD FGHEFMGEVVETGKDVKNLQK GDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPFPKVPPLSDD KALFLSDILPTAWQAAKNAQIQ QGSSVAVYGAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFEDESDPAQSIIETA GHRGVDAVIDAVGFEAKGSTT ETVLTLNKLKLGSSGKALRQCI AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRHPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGKRK*KRWALLCCPGCN I*RHFCHHN*ERYFWIYWVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSIRQVSVPI SAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GSPSVSLATSSCSIKVQNPGISR VVAGSSAHSNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VFRTANFSSGMVNLSVSVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNPNVFNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPTSQPDCAVPGR RALPPELLCLQRSSQSRFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKSLHN RVARTISWPYQARHPCRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPGLGKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLT D PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRVFGQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQGKPTSLPLRKPSAIIICS DSLSGSADLLRNHNHFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSIHKSCIELDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVRIQIRTTFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTAACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRSAKRDCAVSYDQDPGQA QRSCRSCLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCL\HIWVITACWICANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFR\R*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTDS LYCLALSHLRGRLSLRWREL PRGLGVNVSWCYPFKAQGQCA AEITDKAGQREIFGFARVKENA GYVIYECYQDDGDKLIRELPF SSLIFARQWFVVGELLQHLPE DRITPIVGMLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYSNNNSP FYMGIPLKFPADAPSRSTLKLE EAFHVFIPEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSEWSEEVLEMGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLKIGISSPDIALERLYEQAR KLSGKFRALSELDESARSGVLK VLCAFAYQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGKVLAKHESDRRG VPVMKACDRCGRGYARLKFS SVMRALILLRRLKKTAAAYEQL QPLFEELVAECKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFESAMQTGVNAG NPVAW*KSAGYGHKLYDAKN RL\LVQSTALWASQLVQYLSTF FRKNLKRPFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLDGTGRVAISARREGQHLML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDLHLFQQV NRFSSGFPTTYWLMMAHVVH LKTYSTCRIEGGHRFLKDRHS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWVEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDDQNNQQLTQS FCDVVDAILAGGGMVGGGLGDR FTRVAAAHAVHNGLTVLPQTE KFLHGTVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPPTLA ELEVDINNQAEIDKVIAHTLRPV ESIHYPVTLTPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENHIVI FVNNHNGTRCQTFQWAISNCH TVSLQKFSVRKFLSDLFAIGGR RGVRPPTEAPGHQKSDNQAHV SVSFDGLDLVFFVNNQWAGVV FCFDLFSRKRGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVQLDSAGMVNRVSS VGAPLREPIPTGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNRARPTTRPRFHR GTNPRGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHESASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLRGAALC GTAAASGK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWIYGKRAIAAAQTKLPFAFGL PGAKHILFRGHCSSESDVQQLA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEILNAPQQYL LAGIGDTLAKWYEAVVLAPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQLTQSFCDV GDAIIAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILV\QSALLGQDDVL AQLTGAYQRFHLPTTLAELEVD INNQAEIDKVIAHTLRPVESIH LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRENDELIVGSEDGIDPVSLA ALTRKVGKRVRYVIVLRGQIVT GLRHWYARRRGHDPRAMLYN AVQHQWLTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVFLHRMQH QWRQRELVHNMCFVIACAKRK RAPFVQAAEEV\RPQGHDEFP LAIWQTGSGTQSNMNMNEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPAASRGTSWRYSGG YWTKYPSGVCASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCC Q

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24834	55202	A	24972	166	365	NPFSNSPWETYPVAFIPLALFM GIYLRYL RPGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCACS*ST*ESIRPAVVGP EGITFRRFGRTRVVNRMIFDVL RHLFTVIHPLFQFGVTYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAEKYANPIPSRE FILEHLTKREKPASRDELAVEL HIEGEEQLEGYAPVLAPESGILI MRPTLTMPALTKFVDGTGPVW TGNLFPFLFITIACGAVSGFHAI SSGTTPKMLANEGQACFIGYGG MLMESFVAIMALVSACIIDPGV YFAMNSPMAVLAPAGTADV ASAAQVVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRRCTGT SVA G
24839	55207	A	24977	3	982	GDAEPFVFLPR\RKDHEYSLDH YQHRFYLRNHRHGKNFGLYRT RMRDEQQWEELIPPENIMLEG FTLFTDWLVVEERQRGLTSLRQ INRKTREVIGIAFDDPAYVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVP GF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLL VYG YGSYGASIDAFSFSRLSLLDR GFVYAIVHVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLCL KGYYGWDFINDTQILTPRLKTP MIRRQRGGKLEPVSWEALNY VAERLSAIKEKYGPDAIQTGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITDVDLGT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVKR GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPVT LLPYQVWRHAIGTPASQDKLIY EEKDDTYVYVSLHKTTSKHYVVI HLASATTSEVRLLDAEMADAE PFVFLPRRKDHEYSLDHYQHRF YLRSNRHGKNFGLYRTRMRDE QQWEELIPPENIMLEGFTLFTD WLVEERQRGLTSLRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFDLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFV\APR QHFRRDAPVLSFLLFSDRAPFR NNGPRVVLLGYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLQLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTKPAGAIPTSTSITRPIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKGIGVHHNAANLVPW MTKFFQRFQIAFQSRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRAVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGFRFRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMP/SF*QQNRKFAY KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	